

NINTH REGULAR MEETING OF THE 58TH SENATE

TUESDAY, MAY 19, 2026 at 2:00 P.M.

LOUIS RIEL ROOM

1. Welcome and Land Acknowledgement**2. Approval of Agenda****3. Senate Provost Consultation**

3.1. Presentations

4. Closed Session**5. Motion(s) Raised from Closed Session****6. Open Session**

6.1. Approval of Minutes of March 17, 2026

6.2. Business Arising

6.3. Continuing Business

6.4. New Business

6.4.1. Board of Governors – Recent Motions

6.4.1.1. Policy Supersession

- Research Centres and Institutes Policy and Procedures

6.4.2. Senate Executive Updates (Sen. McDaniel)

6.4.2.1. Convocation 2026 Order of Proceedings – *for information only*6.4.2.2. Convocation 2026 Valedictorians – *for information only*

6.4.3. Undergraduate Studies Committee (Sen. Gatien)

6.4.3.1. Faculty of Health Studies

Psychiatric Nursing

- 6.4.3.1.1. Psychiatric Nursing Policy Revision
 - B.Sc.P.N Math Competency Policy

6.4.3.2. Faculty of Science

ADES

- 6.4.3.2.1. ADES New Courses
 - 40:330/ADES 3011 – Application of Research Practice in ADES
- 6.4.3.2.2. ADES Course Deletions
 - 40:470 – Applied Topics: Proposal Preparation
- 6.4.3.2.3. ADES Course Revisions
 - 40:456 – Field Studies in ADES
 - 40:471 – Applied Topics in ADES
 - 40:498 – Honours Thesis
- 6.4.3.2.4. ADES Curriculum & Program Revisions
 - Certificate in Disaster Risk Management Proposal
 - Undergraduate Calendar Revisions

Chemistry

- 6.4.3.2.5. Chemistry New Courses
 - 18:3314/CHEM 3012 – Advanced Organic Chemistry
 - 18.440/CHEM 4010 – Natural Product Synthesis
 - 18.441/CHEM 4011 – Advanced Synthesis Laboratory
- 6.4.3.2.6. Chemistry Course Deletions
 - 18:361 – Advanced Organic Chemistry
 - 18:471 – Natural Products Synthesis
- 6.4.3.2.7. Chemistry Curriculum & Program Revisions
 - Undergraduate Calendar Revisions

Geology

- 6.4.3.2.8. Geology Policy Revisions
 - Articulation Agreement UCN-BU

6.4.4. Graduate Studies Committee (Sen. Ardelli)

- 6.4.4.1. Faculty of Education – Graduate Studies Program
 - 6.4.4.1.1. M.Ed Policy Revisions
 - Criminal Records Check and Child Abuse Registry Check Policy

- 6.4.4.2. Registrar's Office & Library
 - 6.4.4.2.1. Graduate Calendar Revisions
 - Mandatory Thesis Submission
- 6.4.5. Ad-Hoc Committee Reports
 - 6.4.5.1. Artificial Intelligence Committee (Sen. DiMuro)
 - 6.4.5.2. External Review of Programs & Units Policy Review Committee (Sen. Gatien)
- 6.4.6. Individual Reports
 - 6.4.6.1. Brandon University Students' Union (BUSU) President (Sen. Adamu)
 - 6.4.6.2. Board of Governors Representative (Sen. Lumgair)
 - 6.4.6.3. Members of Deans' Council
 - Dean of the Faculty of Arts (Sen. Kennedy)
 - Dean of the Faculty of Education (Sen. Farrell)
 - Acting Dean of the Faculty of Health Studies (Sen. Ross)
 - Acting Dean of the School of Music (Sen. Zacharias)
 - Dean of the Faculty of Science (Sen. LeMoine)
 - Dean of Students (Sen. Whelpton)
 - Chief Information Officer (Sen. Sucha)
 - University Registrar (Sen. McDaniel)
 - 6.4.6.4. Associate Vice-President (Indigenous Initiatives) (C. Lagimodiere)
 - 6.4.6.5. Vice-President (Administration & Finance) (Sen. Hickey)
 - 6.4.6.6. Vice-President (Research & Graduate Studies) (Sen. Ardelli)
 - 6.4.6.7. Acting Provost & Vice-President (Academic) (Sen. Gatien)
 - 6.4.6.8. President (Pres. Bovis-Crossen)

7. Other Business

8. Correspondence

9. Adjournment



SUBJECT TO APPROVAL

MOTION NO. 176.MAY26

AGENDA ITEM NO. 6.4.1.1

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: President's Office

SUBJECT: Policy Supersession

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the following Senate policy be rescinded, as submitted by the President's Office:

- Research Centres, Institutions, and Groups Policy and Procedures

BACKGROUND/RATIONALE:

The Board of Governors holds jurisdiction over research centres and institutes and recently passed a policy governing their administration that supersedes the Senate policy.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

024Mar26

MEETING: Board of Governors

DATE: March 21, 2026

AGENDA: Closed Open

PROPOSED BY: Governance and Nominating Committee

SUBJECT: Research Centres and Institutes Policy and Procedures

FOR: Approval Discussion Notice of Motion

RECOMMENDATION:

BE IT RESOLVED THAT the Board of Governors approve the Research Centres and Institutes Policy and Procedures, effective the date of Board approval;

AND THAT the Board affirms that this Policy is the governing authority for Research Centres and Institutes, and requests that Senate retire its existing policy to ensure alignment within the University's bicameral governance framework.

BACKGROUND/RATIONALE:

The Research Centres, Institutes, and Groups Policy and Procedures document was due for review and revision, as it has not been revised since its creation in 2011. Both the policy and the procedures were outdated and had a number of gaps. Major changes include:

- Incorporating policy and process information into the document that reflects and clarifies practices already followed
- Reflecting the style of other research policies and procedures, and incorporating references to the BU Strategic Research Plan
- Removing "Groups" from the document, as the process for establishing a Group does not mirror that of centres and institutes as it is a more informal and far less involved process

- Including the need for an Equity, Diversity, and Inclusion Plan; Knowledge Mobilization Plan; and Research Data Management Plan in the proposal
- Including clearer language around proposal, reporting, renewal, and review requirements
- Adding a new Overhead and Residual Balances section to support centres and institutes in moving towards their goal of self-sufficiency
 - Of the institutional overhead amount captured on research contracts, a greater percentage will be re-invested back into the Centre or Institute
 - There will also be an opportunity for a Centre or Institute to retain residual account balances under certain conditions
- Adding a new IT Governance section

At present, this policy is housed with Senate; however, its subject matter falls within the jurisdiction of the Board of Governors. Under the University's governing legislation (The Brandon University Act), the Board has authority to "establish programs, services and facilities to further the University's purposes and objects," whereas Senate is responsible for academic policy.

Research Centres and Institutes are formally structured organizational units established under the authority of the Board, and the policy confirms this by stating that they are created under the Board's authority, normally on the recommendation of Senate. No documentation was found explaining why the policy was previously situated with Senate.

To ensure appropriate alignment within the bicameral governance framework, it is recommended that the policy be adopted as a Board policy. This change maintains the Board's commitment to joint collaboration with Senate, recognizing that the Senate may "consider and make recommendations to the Board about any other matters that the Senate considers appropriate for achieving the objects and purposes of the University," and affirming Senate's recommending role in the establishment of Research Centres and Institutes.

The Governance and Nominating Committee met on February 20 and reviewed the proposed policy and procedures, subsequently passing a motion to recommend them to the Board for approval.

Attachments:

- A copy of the revised policy with tracked changes
- A clean copy of the revised policy with changes accepted
- A copy of the revised policy transferred into the BOG template



Outlook

Notice of Motions Passed - BU Board of Governors - March 2026

From Bu_Admin <bu_admin-bounces+wadym=brandonu.ca@listserve.brandonu.ca>
on behalf of

Meghan Lamontagne <LamontagneM@BrandonU.CA>

Date Wed 22/04/2026 15:11

To BU Admin <bu_admin@listserve.brandonu.ca>

Dear Members of the BU Community.

For your information, the below motions were passed by the BU Board of Governors in March 2026:

BE IT RESOLVED THAT the Board of Governors approve the Research Centres and Institutes Policy and Procedures, effective the date of Board approval; AND THAT the Board affirms that this Policy is the governing authority for Research Centres and Institutes, and requests that Senate retire its existing policy to ensure alignment within the University's bicameral governance framework.

With best regards,
Meghan

Meghan Lamontagne | Acting Manager, Executive & Board Operations

BRANDON UNIVERSITY

Office of the President | 270 – 18th Street | Brandon, MB R7 A 6A9



**BRANDON
UNIVERSITY**

Founded 1899

RESEARCH CENTRES, INSTITUTIONS, AND GROUPS POLICY AND PROCEDURES

POLICY

1.0 Reason for Policy

To outline the general guidelines of the Senate Research Committee (SRC) on the establishment and administration of centres, institutes, and groups that focus primarily on research and research-related activities (e.g. research training, research dissemination), and scholarly/creative activities. These guidelines are administered on behalf of the SRC by the Office of the Vice-President (Academic & Provost).

2.0 Policy Statement

2.1 Definitions:

2.1.1 Research Centre/Institute

A research centre/institute is a formally structured organizational unit of the university. It is established under the authority of the Board of Governors, on the recommendation of the Senate of the University. The purpose of a research centre/institute is to engage in research, study or other academic focus in specific areas and to encourage research collaborations among disciplines and between departments, faculties, and schools. Research centres/institutes also provide unique training opportunities for students and serve as a valuable information source for the community at large.

Research centres/institutes normally provide for the strengthening, coordination or facilitation of research and scholarly/creative activities not readily undertaken within the university's department structure, building upon the expertise, competence and staff interest existing at the university.

Research centres/institutes are generally expected to:

- a. have clearly identified goals and objectives;
- b. have some degree of permanence, transcending collaboration on a particular, limited project;
- c. bring together scholars from different disciplines and/or areas of specialization within a particular discipline;
- d. maintain high levels of research productivity;
- e. foster the training of future researchers, especially in regard to research skills;
- f. attract post-doctoral fellows, visiting professors, and other scholars;
- g. cooperate with scholars at other universities and/or institutions; and
- h. seek external funding in order to operate on a cost recovery basis.

In pursuit of their objectives, research centres/institutes may establish communication links inside and outside the university, and organize seminars and symposia.

On occasion, research centres/institutes may involve formal partnerships with other universities and/or institutions. University involvement in such joint centres/institutes is subject to formal agreement approved by the Vice-President (Academic & Provost) by recommendations of the Dean.

2.1.2 Research Group

A research group is an association of university scholars who share research interests and who engage in collaborative or closely related research and scholarly/creative activities. The purpose of a research group is to promote and facilitate communication and collaboration among its members, and to establish the legitimacy of the group both inside and outside the university. The approval of the establishment of a research group is delegated to the Vice-President (Academic & Provost).

2.2 Policy Governing the Establishment of Research Centres/Institutes

2.2.1 Every research centre/institute within the university is accountable through its Director to a University Officer, Dean, or the Vice-President (Academic & Provost). Financial responsibility for the centre/institute is vested with this university officer, Dean, or the Vice-President (Academic & Provost). Faculty/School Deans/Directors shall report to the Vice-President (Academic & Provost) on all matters related to research centres/institutes.

2.2.2 Directors will exercise general supervision over the operation of the unit with specific responsibilities varying with the size of the unit as well as the complexity of its policies and operations.

For any joint faculty/school initiative, the Directors shall be responsible to whichever Dean (or the Vice-President (Academic & Provost) is so designated either in the initial proposal to create such a unit, or as subsequently recommended and approved. In general, only those units which cannot appropriately be administered at the faculty level shall be the responsibility of the Vice-President (Academic & Provost).

2.2.3 All research centres/institutes shall be financially secure with core funding derived from either the university or other sources. In this regard, while the university may provide support to research centres/institutes through its operating budget, research centres/institutes are expected to seek external funding to support their activities (e.g. through grants, contracts, donations or fee-for-service).

2.2.4 Research centres/institutes shall not normally require the hiring of new full-time academic faculty. Each member, including the Director, should hold an appointment in an academic department (1). If release time is required, this should be purchased by the research centre/institute under terms and conditions of the Collective Agreement. Selection of a research centre/institute Director is normally the responsibility of the university officer to whom the Director will report.

2.2.5 While the organizational and administrative structures of research centres/institutes vary as a function of their objectives, size and funding arrangements, all research centres/institutes shall have an advisory committee. The specific terms of reference of such committees may vary from one unit to another; however, the general purpose of these committees is to provide advice on the unit's activities and programs.

2.2.6 All university research centres/institutes must conform to university policies and procedures. In particular, all research centres/institutes shall adhere to the *Overhead Policy for Brandon University Contracts* with respect to the recovery of overheads on research contracts.

2.3 Policy Governing the Establishment of Research Groups

Research groups are established under the authority of the Vice-President (Academic & Provost), upon the recommendation of the Dean or University Librarian.

PROCEDURES

1.0 Reason for Procedures

To set out the procedures secondary to the policy: Research Centres, Institutes, and Groups.

2.0 Procedures

2.1. For Establishing Research Centres/Institutes

2.1.1. Approval process

The authority to establish research centres/institutes resides with the Board of Governors, normally on the recommendation of the Senate of the university. Proposals for research centres/institutes are transmitted from SRC to the Chair of the Senate Planning Committee (SPC) to determine if SPC review is required, and to Senate through its Executive Committee. Prior to their transmittal to SRC, proposals for the establishment of research centres/institutes are normally supported by departmental and faculty councils, as appropriate.

It is expected that a group of researchers will already have discovered the advantages of collaborative work and academic interchange before proposing the formal establishment of a research centre/institute. Researchers should have an established record of research and publication in their fields, as well as, success in securing external support for their research.

2.1.2. Contents of proposal

Proposals must be comprehensive enough to allow the merits and feasibility of establishing a research centre/institute to be assessed, and shall include the following:

- a. Name of Research Centre/Institute
- b. Description and Justification. This shall include:
 - i. a concise statement of the mission and objectives of the proposed research centre/institute and their relationship to the strategic plan of the university;
 - ii. an identification of the scope of activities envisaged; and
 - iii. a description of the research benefits and opportunities likely to result from the establishment of the research centre/institute, including an indication of how the proposed research centre/institute would facilitate research among scholars within the university and in the wider community.
- c. Constitution. This shall include a description of:
 - i. the organization structure of the proposed research centre/institute, including the roles and responsibilities of its various committees;
 - ii. the categories of membership and the criteria of each of these categories;
 - iii. procedures whereby appointments will be made for each membership category; and
 - iv. the privileges and responsibilities of membership.
- d. Management. This should identify the university officer to whom the proposed research centre/institute reports and in whom financial responsibility is vested.
- e. Proposed Membership. This shall include a listing of the proposed membership of the research centre/institute broken down by the various membership categories, where applicable. For each proposed member, abbreviated curriculum vitae shall be provided which details the following information: degree(s) held, employment experience, professional activities, research interests, research funding record, and record of research achievements.
- f. Physical Resources. This shall include:
 - i. a listing of available research facilities (e.g. library holdings, laboratories, space, equipment), including an indication of current strengths and weaknesses; and
 - ii. an indication of future requirements, including a proposed strategy for obtaining these resources.
- g. Financial Resources. This shall include a detailed budget and budget justification for the first three to five years which includes the anticipated revenue from all sources (*i.e.* university, government, industry, recovery of indirect costs, royalties, etc.) and proposed annual operation costs, as well as plans for seeking external funding. Centres/Institutes are expected to be self-sufficient and generate revenue for operations and maintenance independent of Brandon University. This must be demonstrated through both actual and anticipated sources of income

and accompanied by letters of support from potential users/clients who will make use of fee-for-service agreements.

- h. Statements of Support and Commitment. Letters of support and commitment should be signed by the appropriate university officer(s) (*i.e.* department head, Dean/Director, the Vice-President (Academic & Provost)). Any commitments or agreements to provide space, teaching release time or other resources, including the recovery of indirect costs from contract research, should be documented and signed by those authorized to make such commitments. In the absence of such statements, it will be assumed that no such commitments or agreements have been made.

2.2. Annual Reporting Requirements

To facilitate the conduct of periodic review of research centres/institutes, the Director of each research centre/institute shall provide an annual report to the university officer to whom he/she reports as well as to the Vice-President (Academic & Provost) and SRC. This report should detail: the activities of the centre and its personnel, including research accomplishments, graduate training and other research-related activities (e.g. conferences, workshops, seminars, etc.); and its financial status.

2.3. For Reviewing Research Centres/Institutes

In order to ensure that all research is consistent with the goals of the university and that research centres/institutes reflect positively on the general reputation of the university, all research centres/institutes shall be reviewed by SRC on a periodic basis not less than every five years.

2.3.1. Review Process

2.3.1.1. Notice of the review will be communicated to the Director of the research centre/institute by the Chair of SRC at least nine (9) months prior to the end of the mandate of the research centre/institute.

2.3.1.2. In response to this notification, the Director of the research centre/institute shall submit to the Chair of SRC a report which contains the following:

- a. a description of how and why the centre/institute has achieved or revised its original objectives; a detailed listing of its research training accomplishments; a current membership list; and a detailed financial statement;
- b. a five-year plan which identifies future research directions and development strategies;
- c. letters indicating continued support for the research centre/institute from appropriate Deans; and
- d. the names of individuals who can provide external assessments of the research centre/institute.

2.3.1.3. On the basis of this report as well as a review of annual reports, SRC shall determine whether a formal, independent review committee should be struck to conduct a full review of the research centre/institute. If a full review of the research centre/institute is not warranted, in that it is clear that the research centre/institute either qualifies for continuation or that it does not, SRC will recommend to Senate that the research centre/institute continue for a period of three to five years, or that it be terminated, without further review. Any legal agreements that affect the status of the research centre/institute must be taken into consideration in the formal recommendation.

2.3.1.4. In the event that a full review is required, a Review Committee will be appointed by the Chair of SRC in consultation with SRC at least six (6) months prior to the end of the mandate of the Centre. The membership of the Review Committee shall normally include: a senior researcher with administrative experience and no direct involvement in the research centre/institute (preferably a former Dean or department head) who shall act as Chair of the committee; the Director of another research centre/institute; a researcher who is not affiliated with the research centre/institute but is knowledgeable in the field of its research activity; the Chair of SRC or his/her designate to assess financial and institutional concerns; and other members as deemed appropriate.

2.3.1.5. The mechanism by which the Review Committee elects to conduct the review shall be at the discretion of the committee in consultation with the Chair of SRC. Notwithstanding, the primary focus of the review shall be an assessment of: the extent to which the research centre/institute has fulfilled its objectives; the appropriateness of its future goals; and its current and projected financial viability. The review process should involve meetings with the Director and members and should also include the solicitation of external assessments as well as discussion with non-members of the research centre/institute from related departments/fields.

2.3.1.6. The Review Committee shall provide a written report to the Chair of SRC within four months of being established. Before submitting this report, the Chair of the Review Committee shall provide a copy of the report to the Director of the research centre/institute under review to ensure that the report contains no factual errors. The Director may submit a written commentary on the report to the Chair of SRC.

2.3.1.7. SRC will consider the report of the Review Committee, consulting with the committee and Director of the research centre/institute as necessary before making a recommendation to Senate concerning the future of the centre/institute. The recommendation may be:

- a. continuation with review in 5 years;
- b. continuation with review in 1, 2, or 3 years; or
- c. termination.

Any legal agreements that affect status of the research centre/instate must be taken into consideration in the formal recommendation.

2.4. For Establishing Research Groups (2)

2.4.1. Approval Process

The official recognition and designation of a research group is at the approval of the Vice-President (Academic & Provost), normally on the recommendation of the Dean.

A designated research group has the privileges of: identification as a separate unit for university publication purposes as well as use of university letterhead with the group designation; and, if needed, a separate set of accounts for the group's use.

2.4.2. Contents of the Proposal

Recommendations to establish research groups should be forwarded by the Dean to the Vice-President (Academic & Provost) for consideration. Such recommendations should be accompanied by the following information:

- a. name of research group;
- b. objectives and rationale for formation of the research group (including confirmation that its establishment will not detract from existing academic programs);
- c. description of the constitution of the research group in terms of:
 - i. its organization structure;
 - ii. conditions of membership;
 - iii. reporting procedures; and
 - iv. mechanisms for regular review and assessment (which should include a brief annual report to the Vice-President (Academic & Provost));
- d. list of members and abbreviated Curriculum Vitae; and
- e. statement signed by the Director of the research group and Dean detailing any understandings among the research group and Dean (including the provision of space, teaching release, sharing of the recovery of indirect costs on contract research, other resources, etc).

2.4.3. Notification

Upon approval, the Vice-President (Academic & Provost) will notify the SRC and the Senate of the formation of the research group.

Approved by Senate March 15, 2011



SUBJECT TO APPROVAL

MOTION NO. 177.MAY26

AGENDA ITEM NO. 6.4.2.1

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Senate Executive

SUBJECT: Convocation 2026 Order of Proceedings

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate receive the Order of Proceedings for Convocation 2026, for information.

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION: **PER:**
DATE: May 19, 2026

**ORDER OF PROCEEDINGS
MORNING PROGRAM
THURSDAY, MAY 28, 2026 10:00 A.M.
FACULTY OF SCIENCE & SCHOOL OF MUSIC (INCLUDING BMUS/BED CONCURRENT)**

PROCESSIONAL

TBD: Host Drum Group or "Pomp & Circumstance"

O CANADA

TBD: Brandon University's Lower Voices Ensemble: Invicta

KNOWLEDGE KEEPER GREETINGS

TBC: BU-affiliated Knowledge Keeper

OPENING OF CONVOCATION

Mary Jane McCallum, Chancellor

CHANCELLOR'S GREETINGS

Mary Jane McCallum

PRESIDENTIAL INSTALLATION

Christine Bovis-Cnossen

Installed by: Mary Jane McCallum and Quintin Pearce, Vice-Chair, Board of Governors

PRESIDENT AND VICE-CHANCELLOR'S GREETINGS

Christine Bovis-Cnossen

CONFERRAL OF DEGREES

Andrea McDaniel, University Registrar

SENATE AWARD FOR EXCELLENCE IN TEACHING

Wendy Zander

Presented by: Greg Gatien, Acting Provost & Vice-President (Academic)

BOARD OF GOVERNORS AWARD FOR EXCELLENCE IN COMMUNITY SERVICE

Megumi Masaki

Presented by: Quintin Pearce, Vice-Chair, Brandon University Board of Governors

ALUMNI GREETINGS

Chris Hunt, President, Brandon University Alumni Association

VALEDICTORY ADDRESS FROM THE CLASS OF 2026, FACULTY OF SCIENCE

TBD

Introduced by: Christophe LeMoine, Dean, Faculty of Science

VALEDICTORY ADDRESS FROM THE CLASS OF 2026, SCHOOL OF MUSIC

TBD

Introduced by: Leanne Zacharias, Acting Dean, School of Music

CLOSING REMARKS

Christine Bovis-Crossen

HONOUR SONG

TBD (likely BU-affiliated Knowledge Keepers and IPC staff)

CLOSING OF CONVOCATION

Mary Jane McCallum

RECESSIONAL

The audience is requested to remain standing until the academic procession has left the stage.

**ORDER OF PROCEEDINGS
AFTERNOON PROGRAM
THURSDAY, MAY 28, 2026 2:00 P.M.
FACULTY OF EDUCATION (INCLUDING BA/BED INTEGRATED)**

PROCESSIONAL

TBD: Host Drum Group or "Pomp & Circumstance"

O CANADA

TBD: Brandon University's Lower Voices Ensemble: Invicta

KNOWLEDGE KEEPER GREETINGS

TBC: BU-affiliated Knowledge Keeper

OPENING OF CONVOCATION

Mary Jane McCallum, Chancellor

CHANCELLOR'S GREETINGS

Mary Jane McCallum

PRESIDENT AND VICE-CHANCELLOR'S GREETINGS

Christine Bovis-Cnossen

CONFERRAL OF DEGREES

Andrea McDaniel, University Registrar

DISTINGUISHED TEACHER AWARDS

Kelsey Zimmerman, Morris School (Morris, MB)

Presented by: Alysha Farrell, Dean, Faculty of Education

ALUMNI GREETINGS

Chris Hunt, President, Brandon University Alumni Association

VALEDICTORY ADDRESS FROM THE CLASS OF 2026

TBD

Introduced by: Alysha Farrell, Dean, Faculty of Education

CLOSING REMARKS

Christine Bovis-Cnossen

HONOUR SONG

TBD (likely BU-affiliated Knowledge Keepers and IPC staff)

CLOSING OF CONVOCATION

Mary Jane McCallum

RECESSIONAL

The audience is requested to remain standing until the academic procession has left the stage.

**ORDER OF PROCEEDINGS
MORNING PROGRAM
FRIDAY, MAY 29, 2026 10:00 A.M.
FACULTY OF HEALTH STUDIES**

PROCESSIONAL

TBD: Host Drum Group or "Pomp & Circumstance"

O CANADA

TBD: Brandon University's Lower Voices Ensemble: Invicta

KNOWLEDGE KEEPER GREETINGS

TBC: BU-affiliated Knowledge Keeper

OPENING OF CONVOCATION

Mary Jane McCallum, Chancellor

CHANCELLOR'S GREETINGS

Mary Jane McCallum

PRESIDENT AND VICE-CHANCELLOR'S GREETINGS

Christine Bovis-Cnossen

CONFERRAL OF DEGREES

Andrea McDaniel, University Registrar

LIFETIME ACHIEVEMENT AWARD

Bill and Lana Myers

Presented by: Christine Bovis-Cnossen

SENATE AWARD FOR EXCELLENCE IN RESEARCH

Candice Waddell-Henowitch

Presented by: Bernadette Ardelli, Vice-President (Research & Graduate Studies)

ALUMNI GREETINGS

Chris Hunt, President, Brandon University Alumni Association

VALEDICTORY ADDRESS FROM THE CLASS OF 2026

TBD

Introduced by: Linda Ross, Acting Dean, Faculty of Health Studies

CLOSING REMARKS

Christine Bovis-Cnossen

HONOUR SONG

TBD (likely BU-affiliated Knowledge Keepers and IPC staff)

CLOSING OF CONVOCATION

Mary Jane McCallum

RECESSIONAL

The audience is requested to remain standing until the academic procession has left the stage.

**ORDER OF PROCEEDINGS
AFTERNOON PROGRAM
FRIDAY, MAY 29, 2026 2:00 P.M.
FACULTY OF ARTS**

PROCESSIONAL

TBD: Host Drum Group or "Pomp & Circumstance"

O CANADA

TBD: Brandon University's Lower Voices Ensemble: Invicta

KNOWLEDGE KEEPER GREETINGS

TBC: BU-affiliated Knowledge Keeper

OPENING OF CONVOCATION

Mary Jane McCallum, Chancellor

CHANCELLOR'S GREETINGS

Mary Jane McCallum

PRESIDENT AND VICE-CHANCELLOR'S GREETINGS

Christine Bovis-Cnossen

CONFERRAL OF DEGREES

Andrea McDaniel, University Registrar

HONORARY DEGREE

Verna DeMontigny

Presented by: Greg Gatien, Acting Provost & Vice-President (Academic)

BRANDON UNIVERSITY ALUMNI ASSOCIATION EXCELLENCE IN TEACHING AWARD

Chris Schneider

Presented by: Chris Hunt, President, Brandon University Alumni Association

ALUMNI GREETINGS

Chris Hunt, President, Brandon University Alumni Association

VALEDICTORY ADDRESS FROM THE CLASS OF 2026

TBD

Introduced by: Gregory Kennedy, Dean, Faculty of Arts

CLOSING REMARKS

Christine Bovis-Cnossen

HONOUR SONG

TBD (likely BU-affiliated Knowledge Keepers and IPC staff)

CLOSING OF CONVOCATION

Mary Jane McCallum

RECESSIONAL

The audience is requested to remain standing until the academic procession has left the stage.



SUBJECT TO APPROVAL

MOTION NO. 178.MAY26

AGENDA ITEM NO. 6.4.2.2

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Senate Executive

SUBJECT: Convocation 2026 Valedictorians

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate receive the list of valedictorians for Convocation 2026, for information.

- Faculty of Arts – Hailey Anderson
- Faculty of Education – Cydney Rose Bjerke
- Faculty of Health Studies – Morgan Burr
- Faculty of Science – Kendal Giesbrecht
- School of Music – Leeanne Gerry

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:



SUBJECT TO APPROVAL

MOTION NO. 179.MAY26

AGENDA ITEM NO. 6.4.3.1.1

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Health Studies

SUBJECT: Policy Revisions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following policy revisions, as submitted by the Department of Psychiatric Nursing, Faculty of Health Studies:

- BScPN Math Competency Policy

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:



BScPN Math Competency Policy - for USC/SENATE approvals

From Michelle McFarlin <McFarlinM@BrandonU.CA>

Date Tue 24/02/2026 11:49

To Brandon University Senate <Senate@BrandonU.CA>

Cc Lisa Kordalchuk <KordalchukL@BrandonU.CA>; Linda Ross <ROSS@BrandonU.CA>; Chris Byman <BymanC@BrandonU.CA>

 2 attachments (225 KB)

Feb 9, 2026 edits BScPN-Math-Competency-Policy-April-2023 DRAFT Version.docx; Feb 9, 2026 edits BScPN-Math-Competency-Policy-April-2023-clean version.pdf;

Hello Megan,

At our February 23, 2026 FHS Faculty Council meeting, the revised BScPN Math Competency Policy was approved.

Attached, please find the tracked changes and clean version of the Policy which now requires USC/Senate approvals.

The rationale for these revisions are:

Under Procedure:

- Removed specific courses and instead noted that the testing would occur in specific years/terms, prior to the next clinical course (also identified those courses).
- Provided more specific information about the type of calculator that could be used for the **testing only** (not the specific course).
- Clarified who would initiate the Performance Improvement Plan and added remediation as a possibility.

Any specific questions should be directed to the Department of Psychiatric Nursing Chair, Ms. Lisa Kordalchuk (also copied here).

With thanks,

Michelle McFarlin | Administrative Assistant to the Dean

BRANDON UNIVERSITY

Faculty of Health Studies

270 – 18th Street | Brandon, MB R7A 6A9

p. 204-727-7459

mcfarlinm@brandonu.ca



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FACULTY OF HEALTH STUDIES

Subject:	Math Competency for B.Sc.P.N. students	Date:	May 15, 2018
Department:	Psychiatric Nursing	Revised:	April 11, 2023 <u>February 9, 2026</u>
Program:	Bachelor of Science in Psychiatric Nursing	Approved at HS Faculty Council:	May 29, 2023 <u>February 23, 2026</u>

PURPOSE:

A licensing requirement as indicated by the College of Registered Psychiatric Nurses of Manitoba (2023), is "~~the ability to use~~ Using complex computation skills in order to add, subtract, multiply and divide; calculate ratios and percentages; apply algebraic equations; and make complex decisions in order to prioritize and administer care." (p. 2). ~~(March 2017)*~~

POLICY:

Math proficiency is established through assessment that will occur strategically throughout the Bachelor of Science in Psychiatric Nursing program to ensure that students consistently achieve high levels of foundational math skills.

PROCEDURE:

Nursing math skills will be introduced and assessed in Year 2 of the Program as part of Fundamentals of Psychiatric Nursing III.

- 1- Nursing math skills will ~~also be subsequently formally~~ tested in:
- ~~Term 2 of Year 2 prior to 69:262 Medical Nursing for Psychiatric Nurses~~
 - ~~Term 1 of Year 3 (organized by the Course Instructor of Integrated Practicum II) prior to 69.342 Integrative Practice II~~
 - ~~Term 1 of Year 4 (organized by the Course Instructor of 69:454 Leadership for Professional prior to 69.442 Integrative Clinical Practicum) Practice in preparation for Integrated Practice-IV)~~

~~In Years 2, 3 and 4, S~~students will have three (3) attempts to achieve a score of 100%. Use of ~~a basic~~ calculator ~~that does not connect to the internet~~ is permitted ~~(except when math testing occurs in specific courses)~~. If a student fails to achieve 100% ~~by on~~ the third attempt, a ~~Performance Improvement Plan (PIP) and any necessary remediation~~ will be initiated by the ~~faculty member Course Instructor~~ responsible for testing ~~in collaboration with the clinical course leader~~ and carried forward into the applicable clinical course. (See Policy Students Experiencing Difficulty in Clinical / Lab).

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‡College of Registered Psychiatric Nurses of Manitoba (2023). *Becoming a registered psychiatric nurse in Manitoba*. Retrieved ~~February 2, 2023~~ ~~63~~ ~~29~~
<https://www.brandonu.ca/health-studies/files/2023/05/Becoming-a-Registered-Psychiatric-Nurse-in-MB-updated-May-2023.pdf>

FACULTY OF HEALTH STUDIES

Subject:	Math Competency for B.Sc.P.N. students	Date:	May 15, 2018
Department:	Psychiatric Nursing	Revised:	February 9, 2026
Program:	Bachelor of Science in Psychiatric Nursing	Approved at HS Faculty Council:	February 23, 2026

PURPOSE:

A licensing requirement as indicated by the College of Registered Psychiatric Nurses of Manitoba (2023), is “Using complex computation skills in order to add, subtract, multiply and divide; calculate ratios and percentages; apply algebraic equations; and make complex decisions in order to prioritize and administer care.”(p. 2).

POLICY:

Math proficiency is established through assessment that will occur strategically throughout the Bachelor of Science in Psychiatric Nursing program to ensure that students consistently achieve high levels of foundational math skills.

PROCEDURE:

Nursing math skills will be introduced and assessed in Year 2 of the Program as part of Fundamentals of Psychiatric Nursing III.

Nursing math skills will also be formally tested in:

- Term 2 of Year 2 prior to 69:262 Medical Nursing for Psychiatric Nurses
- Term 1 of Year 3 prior to 69.342 Integrative Practice II
- Term 1 of Year 4 prior to 69.442 Integrative Clinical Practicum

In Years 2, 3 and 4, students will have three (3) attempts to achieve a score of 100%. Use of a basic calculator that does not connect to the internet is permitted (except when math testing occurs in specific courses). If a student fails to achieve 100% by the third attempt, a Performance Improvement Plan (PIP) and any necessary remediation will be initiated by the faculty member responsible for testing in collaboration with the clinical course leader and carried forward into the applicable clinical course. (See Policy Students Experiencing Difficulty in Clinical / Lab).



SUBJECT TO APPROVAL

MOTION NO. 180.MAY26

AGENDA ITEM NO. 6.4.3.2.1

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: ADES New Courses

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following new courses, as submitted by the Department of ADES, Faculty of Science:

- 40:330/ADES 3011 – Application of Research Practice in ADES

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:



Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

New Course #	40:330/ADES 3011
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A. NEW COURSE DETAILS

Level of Study: Undergraduate Graduate

Course Level: 300/3000

Start Term & Year: Term 1/ 2026-2027

Faculty/School: Science

Department: ADES (40)

Subject Identifier (ex. GEOG): ADES

Course Title: Application of Research to Practice in ADES

Short Title:

Term Duration: One Term

Course Hours: 3

Hrs/wk: 3

Lab hrs/wk:

Course Type: Lecture

Prerequisite(s): None
 Specific Course(s): 15 credit hours of Applied Disaster
Permission of:

OR

AND/OR

Corequisite(s): None
Specific Course(s):

AND/OR

Antirequisite(s): None
Specific Course(s):

Cannot Be Held With: 40:470 Applied Topics - Proposal Preparation

Cross-Listed With:

Include Course In (check all that apply):

- Required major core courses
- Major group/area/"plus" lists:
- Required minor core courses
- Minor group/area/"plus" lists:
- Liberal Education List

Additional Information/Clarification:

The ADES Department wants to introduce a new course, 40:3xx Application of Research to Practice in ADES, as the prerequisite for the three courses (40:456 Field Studies in ADES, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis). We want to offer a 300-level prerequisite course that would encourage earlier 4-year ADES degree planning and allow the department to better manage the timing of student enrollment in final-year applied project courses, making workload planning more effective and predictable.

B. NEW COURSE CALENDAR INFORMATION**Calendar Description:**

40:3xx APPLICATION OF RESEARCH TO PRACTICE IN ADES (3)

Prerequisite: 15 credit hours of Applied Disaster.

Professional disaster risk reduction and comprehensive emergency management practices often involve commissioning, conducting, and assessing research. This course guides students through the process of developing and implementing research in practice including the identification and development of potential topics and the use of appropriate methodologies. These skills are complemented by course lectures covering research and professional ethics, project management and evaluation, and report writing. These skills are key for students to succeed in experiential learning, preparing for the honour's thesis, and transitioning into the profession as an evidence-based practitioner. 3 lecture hours per week, one term.

Calendar Placement:

5.16.2 ADES (40) section.



C. LIBRARY CONSULTATION

Before a new course proposal can be forwarded to the Undergraduate Studies Committee (USC) or the Graduate Studies Committee (GSC) for consideration, formal consultation with the University Library is required, and a Library Impact Statement must be submitted to the appropriate Dean's Office.

The Library Collection Analysis Request form is available online at <https://brandonu.libwizard.com/f/LibraryAnalysisRequest>.

- A Library Collection Analysis Request has been submitted to the Library for review.
- A Library Impact Statement has been returned by the Library and is available in the Dean's Office.
- This is a variable content course (such as a Topics/Tutorials or Readings course) where the content covered will differ significantly from one offering to another; accordingly, a Library Collection Analysis is not required.

D. REQUIRED SUPPORTING DOCUMENTATION

- Detailed Course Outline

E. RATIONALE/ADDITIONAL INFORMATION

Enter a detailed rationale for the creation of this new course. Provide sufficient detail on how the proposed course meets degree outcomes and improves curriculum development in the program.

The applied nature of the ADES program is fulfilled, in part, by experiential learning opportunities. Three options are available to ADES majors: Applied Topics in ADES (40.471); Field Studies in ADES (40:456) or Co-op Work Term II (99:251). Each of these courses, in their own way, provide ADES students with the chance to see how theory is applied in practice. Application of Research to Practice in ADES (40.3xx) prepares students to undertake these experiential activities and assists students' transition from an academic perspective before entering the workforce. It also serves as the pre-requisite for the ADES honour's thesis (40.498). The proposed course also introduces research factors into professional decision-making in disaster risk reduction and emergency management practices.



F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: 3/18/26

Dean's Approval Date: 3/18/26

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-04-09

Calendar

Edit Date:

Senate

Approval/Completion Date:

F & R Services

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SUBJECT TO APPROVAL

MOTION NO. 181.MAY26

AGENDA ITEM NO. 6.4.3.2.2

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: ADES Course Deletions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following course deletions, as submitted by the Department of ADES, Faculty of Science:

- 40:470 – Applied Topics: Proposal Preparation

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

DEFINITIONS – COURSE DELETION PROPOSAL FORM

A. COURSE DELETION REQUEST DETAILS

Level of Study	Indicator distinguishing undergraduate courses from graduate courses
Course Number	The 5-digit numeric course identifier (example: 16:151)
Course Title	The title of the course proposed for deletion
Faculty/School	The Faculty/School proposing the course deletion
Department	The specific department proposing the course deletion
Cross-Listed Courses	Where agreement has been made with another department to have the proposed course recognized by that department towards its major/minor requirements, the other department's/departments' associated course number(s) must be listed in this field.



SUBJECT TO APPROVAL

MOTION NO. 182.MAY26

AGENDA ITEM NO. 6.4.3.2.3

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: ADES Course Revisions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following revisions, as submitted by the Department of ADES, Faculty of Science:

- 40:456 – Field Studies in ADES
- 40:471 – Applied Topics in ADES
- 40:498 – Honours Thesis

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

Revised Course #	
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A. COURSE IDENTIFICATION (CURRENT)

Level of Study: Undergraduate Graduate

Course Number: 40:456

Course Title: Field Studies in ADES

Faculty/School: Science

Department: ADES (40)

Calendar Entry (paste screenshot from current online Calendar below):

40:456 FIELD STUDIES IN ADES (3)

Prerequisite: 40:452 and 40:454.

This course is designed to provide students experience and instruction in the theoretical and applied aspects of conducting fieldwork to study problems in various aspects of disaster studies and emergency management practice. Coursework will involve a mix of classroom instruction and field research/observation. Students will use a variety of data collection strategies, sampling techniques, and specific field methods, equipment and procedures commonly used for disaster and emergency management research. This is followed by analysis and oral/or written presentation of findings. The course involves a fieldwork component in Canada or abroad and the specific destination and duration will be arranged each time the course is offered. Students may be responsible for the costs of travel, meals and accommodations related to the fieldwork component with further information on the logistics being provided in the course outline.

3 lecture hours per week, one term.

B. PROPOSED COURSE INFORMATION REVISIONS

Enter information **only** in the fields below where proposed changes are being made.

CHANGE:

Course Level to:

Course Title to:

Credit Hours to:

Short Title to (max 25 characters):

Course Type to:

Subject Identifier (ex. GEOG):

Term Duration to:

Hrs/wk to:

Lab hrs/wk to:

Prerequisite(s): None

Specific Course(s): 40:3xx Application of Research to Practice in ADES

Permission of:

AND/OR OR

Corequisite(s): None

Specific Course(s):

AND/OR



Antirequisite(s): None
Specific Course(s):

Cannot Be Held With:

Cross-Listed With:

Additional Information/Clarification:

We are revising the prerequisite requirements, replacing the 40:452 ad 40:454 courses with 40:3xx Application of Research to Practice in ADES. This new course will streamline and consolidate ADES experiential learning courses, such as this course (40:456 Field Studies in ADES), to improve efficiency in students' course selection and preparation.

C. PROPOSED COURSE CALENDAR REVISIONS

New Calendar Description:

40:456 FIELD STUDIES IN ADES (3) Prerequisite: 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair. This course is designed to provide students experience and instruction in the theoretical and applied aspects of conducting fieldwork to study problems in various aspects of disaster studies and emergency management practice. Coursework will involve a mix of classroom instruction and field research/observation. Students will use a variety of data collection strategies, sampling techniques, and specific field methods, equipment and procedures commonly used for disaster and emergency management research. This is followed by analysis and oral/or written presentation of findings. The course involves a fieldwork component in Canada or abroad and the specific destination and duration will be arranged each time the course is offered. Students may be responsible for the costs of travel, meals and accommodations related to the fieldwork component with further information on the logistics being provided in the course outline. 3 lecture hours per week, one term.

Calendar Placement:

5.16.2 ADES (40) Section.



D. REQUIRED SUPPORTING DOCUMENTATION

Detailed Course Outline

E. RATIONALE & JUSTIFICATION

Explain why these proposed revisions are being made to this course and, if significant changes are being made, provide reasoning to explain why this should be considered a course change rather than a new course. Provide sufficient detail to permit USC/GSC and Senate to evaluate the request fully and effectively.

ADES is realigning its courses that emphasize the applied components of disaster studies and emergency management. ADES has proposed the experiential learning aspect be fulfilled by a choice of 40:471 Applied Topics in ADES, 40:456 Field Studies in ADES or 99:251 Co-op Work Term II. To help prepare students for these experiential courses, ADES is also proposing a new course, 40:3xx Application of Research to Practice in ADES to replace the existing prerequisite for 40:456 Field Studies in ADES, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis.

Currently 40:452 Disaster and Development and 40:454 International Comparisons in Emergency Management are the prerequisites for the course 40:456 Field Studies in ADES. The change proposed here will use 40:3xx Application of Research to Practice in ADES as the prerequisite for 40:456 Field Studies in ADES.

F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: 2026-03-18

Dean's Approval Date: 2026-03-18

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-04-09

Calendar

Edit Date:

Senate

Approval/Completion Date:

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Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

Revised Course #	
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A. COURSE IDENTIFICATION (CURRENT)

Level of Study: Undergraduate Graduate

Course Number: 40:471

Course Title: Applied Topics in ADES

Faculty/School: Science

Department: ADES (40)

Calendar Entry (paste screenshot from current online Calendar below):

40:471 APPLIED TOPICS IN ADES (3)

Prerequisite: 40:470 with "C+" or better grade and permission of Chair.

The purpose of this course is to provide applied disaster and emergency management experience in a supervised research setting that is geared towards the integration of theory and practice. Emphasis will be placed on the application of concepts, principles and skills acquired from the ADES curriculum. Each student will undertake a research project within the disaster and emergency management field including municipal, provincial, and federal governments, industry, relief and voluntary organizations. The topics course will include hands-on experience in disaster and emergency management issues through an applied project culminating in a final report.
3 hours per week, one term.

B. PROPOSED COURSE INFORMATION REVISIONS

Enter information **only** in the fields below where proposed changes are being made.

CHANGE:

Course Level to:

Course Title to:

Credit Hours to:

Short Title to (max 25 characters):

Course Type to:

Subject Identifier (ex. GEOG):

Term Duration to:

Hrs/wk to:

Lab hrs/wk to:

Prerequisite(s): None

Specific Course(s): 40:3xx Application of Research to Practice in ADES
Permission of:

AND/OR OR

Corequisite(s): None

Specific Course(s):

AND/OR



Antirequisite(s): None
Specific Course(s):

Cannot Be Held With:

Cross-Listed With:

Additional Information/Clarification:

We are revising the prerequisite requirements for 40:471 Applied Topics in ADES, replacing the 40:470 Applied Topics - Proposal Preparation course with 40:3xx Application of Research to Practice in ADES. This new course will streamline and consolidate ADES experiential learning courses, such as this course (40:471 Applied Topics in ADES), to improve efficiency in students' course selection and supervisory assignments.

C. PROPOSED COURSE CALENDAR REVISIONS

New Calendar Description:

40:471 APPLIED TOPICS IN ADES (3) Prerequisite: 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair. The purpose of this course is to provide applied disaster and emergency management experience in a supervised research setting that is geared towards the integration of theory and practice. Emphasis will be placed on the application of concepts, principles and skills acquired from the ADES curriculum. Each student will undertake a research project within the disaster and emergency management field including municipal, provincial, and federal governments, industry, relief and voluntary organizations. The topics course will include hands-on experience in disaster and emergency management issues through an applied project culminating in a final report. 3 hours per week, one term.

Calendar Placement:

5.16.2 ADES (40) Section.



D. REQUIRED SUPPORTING DOCUMENTATION

Detailed Course Outline

E. RATIONALE & JUSTIFICATION

Explain why these proposed revisions are being made to this course and, if significant changes are being made, provide reasoning to explain why this should be considered a course change rather than a new course. Provide sufficient detail to permit USC/GSC and Senate to evaluate the request fully and effectively.

ADES is realigning its courses that emphasize the applied components of disaster studies and emergency management. ADES has proposed the experiential learning aspect be fulfilled by a choice of 40:471 Applied Topics in ADES, 40:456 Field Studies in ADES or 99:251 Co-op Work Term II. To help prepare students for these experiential courses, ADES is also proposing a new course, 40:3xx Application of Research to Practice in ADES to replace the existing prerequisite for 40:471 Applied Topics in ADES, 40:456 Field Studies in ADES, and 40:498 Honours Thesis.

Currently 40:470 Applied Topics—Proposal Preparation is the prerequisite for the course 40:471 Applied Topics in ADES. The change proposed here will use 40:3xx Application of Research to Practice in ADES as the prerequisite for 40:471 Applied Topics in ADES.

F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: 2026-03-18

Dean’s Approval Date: 2026-03-18

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-04-09

Calendar

Edit Date:

Senate

Approval/Completion Date:

F & R Services

Copy Sent:

Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

Revised Course #	
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A. COURSE IDENTIFICATION (CURRENT)

Level of Study: Undergraduate Graduate

Course Number: 40:498

Course Title: Honours Thesis

Faculty/School: Science

Department: ADES (40)

Calendar Entry (paste screenshot from current online Calendar below):

40:498 HONOURS THESIS (3)

Prerequisite: 40:470 and 40:471.

This course allows Honours students the opportunity to include additional academic research to complement their experience in 40:471 Applied Topics in ADES. The focus is on the production of a "publication quality" thesis that contributes to the continued advancement of their disaster and emergency studies and is intended to prepare students for further graduate level research.

This course is required by and limited to students enrolled in the ADES 4-Year Honours degree. 40:471 and this course are usually taken consecutively but may be taken concurrently with permission.

B. PROPOSED COURSE INFORMATION REVISIONS

Enter information **only** in the fields below where proposed changes are being made.

CHANGE:

Course Level to:

Course Title to:

Credit Hours to:

Short Title to (max 25 characters):

Course Type to:

Subject Identifier (ex. GEOG):

Term Duration to:

Hrs/wk to:

Lab hrs/wk to:

Prerequisite(s): None

■ Specific Course(s): 40:3xx Application of Research to Practice in ADES

Permission of:

AND/OR OR

Corequisite(s): None

■ Specific Course(s):

AND/OR



Antirequisite(s): None
Specific Course(s):

Cannot Be Held With:

Cross-Listed With:

Additional Information/Clarification:

We are revising the prerequisite requirements, replacing the 40:470 and 40:471 courses with 40:3xx Application of Research to Practice in ADES. This new course will streamline and consolidate ADES experiential learning courses and Honours Thesis to improve efficiency in students' course selection and supervisory assignments.

C. PROPOSED COURSE CALENDAR REVISIONS

New Calendar Description:

40:498 HONOURS THESIS (3)

Prerequisite: 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair. This course allows Honours students the opportunity to include additional academic research to complement their experience in 40:471 Applied Topics in ADES. The focus is on the production of a "publication quality" thesis that contributes to the continued advancement of their disaster and emergency studies and is intended to prepare students for further graduate level research.

This course is required by and limited to students enrolled in the ADES 4-Year Honours degree.

Calendar Placement:

5.16.2 ADES (40) Section.



D. REQUIRED SUPPORTING DOCUMENTATION

Detailed Course Outline

E. RATIONALE & JUSTIFICATION

Explain why these proposed revisions are being made to this course and, if significant changes are being made, provide reasoning to explain why this should be considered a course change rather than a new course. Provide sufficient detail to permit USC/GSC and Senate to evaluate the request fully and effectively.

ADES is realigning its courses to strengthen the integration of theory and practice in disaster studies and emergency management. To help prepare students for upper-level required courses, ADES is proposing a new course, 40:3xx Application of Research to Practice in ADES to replace the existing prerequisite for 40:456 Field Studies in ADES, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis.

Currently 40:470 Applied Topics - Proposal Preparation and 40:471 Applied Topics in ADES are the prerequisites for the course 40:498 Honours Thesis. The change proposed here will use 40:3xx Application of Research to Practice in ADES as the prerequisite for 40:498 Honours Thesis.

F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: 2026-03-18

Dean's Approval Date: 2026-03-18

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-04-09

Calendar

Edit Date:

Senate

Approval/Completion Date:

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SUBJECT TO APPROVAL

MOTION NO. 183.MAY26

AGENDA ITEM NO. 6.4.3.2.4

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: ADES Curriculum & Program Changes

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following curriculum & program changes, as submitted by the Department of ADES, Faculty of Science:

- Certificate in Disaster Risk Management Proposal
- Undergraduate Calendar Revisions

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

Proposed Program Expansion

Department: Applied Disaster and Emergency Studies

Proposed Program:

Certificate in Disaster Risk Management (CDRM)

Background/Rationale

The management of disaster risk at national, Municipal and community levels is indispensable to the achievement of sustainable development goals in Canada. The challenges associated with disaster risk management (DRM) are compounded by changing climates as well as the social, economic and environmental dynamics of the space in which the management of disaster risk occurs. The establishment of the Applied Disaster and Emergency Studies program at Brandon University in 2001 was a response to the need for enhanced understanding of the drivers behind the occurrence of disaster and the design of strategies to build disaster resilience at all levels of society. However, there remains significant gaps in the human resourcing interface between the demands for appropriately qualified personnel to effect the development of resilience capacities and the supply of trained personnel.

It is in context of the agility, accessibility and inclusion advocacy of the Brandon University Strategic Plan as well as the emerging need for an expanded cadre of technical expertise who can effectively manage a dynamic DRM environment, that the ADES Department proposes an expansion of its programming. The management of emerging disaster risks must reach beyond those who have been traditionally responsible for DRM, if the challenges of more frequent and compounding hazards are to be more effectively addressed in the communities served by Brandon University. The training needs of the DRM discipline is diverse and requires programmatic options that transcends traditional degree programs and embraces targeted micro-credentials that cater to emergent DRM training needs in an agile and inclusive manner.

The trans-disciplinary context of the proposed ADES Certificate in Disaster Risk Management will go beyond multidisciplinary collaboration at Brandon University, by fostering integration of the perspectives of different disciplines such as Rural Development to create a holistic understanding of and solution to emerging disaster risk-management issues that affect communities.

The proposed Certificate is premised on the emergent recognition that community-based disaster resilience (CBDR) is central to the success of disaster risk reduction initiatives at global, regional and national levels. As such, current and future DRM knowledge-enhancement and training must acknowledge, incorporate and advocate:

- i. The shifting focus towards CBDR
- ii. The multi-disciplinary context of CBDR
- iii. The need to better empower to advance their own resilience by ensuring that requisite expertise/training are accessible to community disaster-risk managers.
- iv. The critical role of capacity-building at community levels, In advancing CBDR agenda
- v. Community participation and partnership in enhancing local-level resilience

The proposed ADES Certificate in Disaster Risk Management is a non-degree micro credential that is intended to be institutionally awarded by the Science Faculty at Brandon University. This Certificate may be laddered into a traditional degree.

Objective

The overarching objective of this micro credential is to enhance knowledge application for comprehensive disaster management within the context of promoting resiliency capacity building at the community level. Specific objectives include:

- i. To build disaster resilience capacity of communities in Canada through basic understanding of the core principles of disaster risk management.

- ii. To enhance disaster management practitioners' capacity to apply the core principles of Disaster risk management to community resilience planning process
- iii. To underscore the role of community participation and partnership in resilience capacity development

Upon successful completion of the certificate, participants will be able to demonstrate and apply a comprehensive understanding of the principles and processes of community-based disaster resilience capacity-building. As such, they will have the competencies that are required to guide and facilitate interventions and initiatives for managing disaster risks at the local level. If participants meet the minimal course requirements they can choose to ladder the Certificate into a major or minor degree in ADES.

Calendar entry (track changes)

4-YEAR MAJOR

Students considering a 4-Year ADES Major must complete a minimum of **57 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	33
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:251	Hazards: Causes and Physical Dynamics	3	
40:253	Hazards and Risk Assessment	3	
40:350	Hazard Mitigation and Adaptation	3	
40:351	Disaster Recovery	3	
40:352	Emergency Management Law	3	
40:362	Disaster Response Management	3	
40:470	Applied Topics - Proposal Preparation	3	
40:471	Applied Topics in ADES	3	
Additional Major Requirements:			15
Plus:	15 credit hours of additional ADES courses at the 200 level or above, of which 6 must be at the 400 level .		
Must achieve 2.00 GPA for Major requirement		Major Total:	48
Ancillary Course Requirements:			9
BA 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Arts (or Geography or Psychology) .	9	
BSc 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Science .	9	
Additional Degree Requirements:			
Plus: *	Minor requirement	Must achieve 2.00 GPA for Minor requirement	
Plus:	Multidisciplinary Education Requirement (see section 5.4)		
Plus:	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours (including prerequisites)		
Must achieve 2.00 GPA for Graduation requirement		Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [Error! Reference source not found.](#)

MINOR

Students considering an ADES minor must complete a minimum of **18 credit hours** consisting of:

Core Minor Requirements:		Cr. Hrs.	9
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
Additional Minor Requirements:			9
Plus:	9 credit hours of additional ADES courses at the 200 level or above*		
Must achieve 2.00 GPA for Minor requirement		Minor Total:	18

* Excluding, 40:470 Applied Topics - Proposal Preparation, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis.

CERTIFICATE IN DISASTER RISK MANAGEMENT (CDRM)

General Information

The ADES Certificate in Disaster Risk Management (CDRM) is a non-degree for – credit micro credential that is intended to be institutionally awarded by the Science Faculty at Brandon University. This Certificate may be applied (laddered) into a traditional degree.

The proposed micro credential is geared towards existing and potential participants and practitioners in community disaster risk management as well as community development personnel in governmental, non-governmental and civil society organizations.

Admission Requirements

Normal admission requirements to Brandon University apply. These courses are ladderable in Brandon University Degree programs.

Registration Status and Timeline

Each year, candidates are encouraged to confirm their status in the certificate program with the department chair. Students who choose to take at least one course per semester can complete the program in approximately two years.

Prerequisites

Each candidate is responsible for meeting the prerequisites for courses specific to the certificate program.

Academic Performance

Candidates must obtain an overall grade point average of 2.50 or higher for the courses used towards certificate program and must be a good academic standing (3.18.2).

Program Requirements

The CDRM consists of 15 credit hours of coursework offered through the ADES program. Students are advised that courses may not be offered in any given year. Candidates are encouraged to discuss their timelines with the chair.

Certificate Requirements

The ADES Certificate in CDRM requires 15 credit hours of ADES courses consisting of:

Core Requirements:		Cr. Hrs.	15
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:253	Hazards and Risk Assessment	3	
40:273	Sociology of Disaster	3	
Must achieve 2.50 GPA for CDRM requirement		Certificate Total:	15

Notes:

- This certificate, which is issued by the Faculty of Science, may be completed as a stand-alone credential, or subsequently laddered into an undergraduate major or minor degree in Applied Disaster and Emergency Studies at Brandon University.
- All courses to be offered by Brandon University and transfer credit will not be considered.

COURSE DESCRIPTIONS

Note: Students are reminded that the courses as listed below may or may not be offered in any given year. Please check the [Registration Guide](#) for the final listing.

40:151 INTRODUCTION TO DISASTER STUDIES (3)

Prerequisite: Nil.

This course introduces students to the social as well as physical aspects of hazards and disasters and how these can be minimized through effective risk reduction and emergency management. Multidisciplinary and international case studies are examined with emphasis on the practical implications of differing theoretical perspectives. The fundamental models, theories and concepts at the core of emergency management and future directions in Canada and the world are explored to provide students with a solid foundation for future study.

3 lecture hours per week, one term.

40:152 INTRODUCTION TO EMERGENCY MANAGEMENT (3)

Prerequisite: Nil.

This course will provide students with a broad introduction to the current practices of emergency management and the theories that they are based on. This course will review the evolution of the current emergency management research and its professional practices. The principles and components of a comprehensive program will be presented and related to both urban and rural settings. Students will be introduced to a range of topics, including mitigation, preparedness, response, and recovery that will be further developed in later ADES courses.

3 lecture hours per week, one term.

40:153 INTRODUCTION TO NATURAL AND TECHNOLOGICAL HAZARDS (3)

Prerequisite: Nil.

This course introduces students to the natural and technological hazards that cause disasters. This course will examine the fundamentals of natural hazards and their interface with social environments. Specifically, this part will discuss geological, hydro-meteorological, and epidemiological hazards within the social content of their occurrence. This course will also discuss the dynamics of techno-social hazards, such as hazardous material and mass causality accidents, with a special emphasis on the emergence of global terrorism.

3 lecture hours per week, one term.

40:251 HAZARDS: CAUSES AND PHYSICAL DYNAMICS (3)

Prerequisite: 40:151 and 40:152 and 40:153.

Through a review of the causes of geophysical, biological, hydro-meteorological, and technological hazards and disasters, this course will examine the complex interaction of dynamic processes and of life support systems. A number of case studies dealing with earthquakes, landslides, floods, storms, droughts, and other natural and technological hazards will be critically examined.

3 lecture hours per week, one term.

40:252 EMERGENCY PLANNING AND MANAGEMENT (3)

Prerequisite: 40:151.

A study of the principles of emergency management and planning relative to a variety of natural hazards and the disasters they cause. Students will gain an understanding of associated functions and interactions of levels of government in preparing and implementing plans. An emphasis is placed on both mitigation and preparedness/response planning.

3 lecture hours per week, one term.

40:253 HAZARDS AND RISK ASSESSMENT (3)

Prerequisite: 40:251.

Through assessment of core issues and competing models, students will learn effective strategies for identifying a wide range of environmental, technical and human-induced hazards, assessing social and environmental vulnerabilities to these, and people's efforts to reduce risk. Particular attention is paid to the factors constraining and promoting effective risk assessment at the community level. Students will examine case studies of disaster risk assessment and work in groups to produce their own.

3 lecture hours per week, one term.

40:254 DISASTER MOVIES: FACT OR FICTION (3)

Prerequisite: Nil.

This course will examine how disasters and emergency management are portrayed in disaster movies and discuss the effect such movies have on how the public understands the issues. A disaster film will be viewed and discussed every week. Students will consider and contrast how the

Calendar entry (clean copy)

4-YEAR MAJOR

Students considering a 4-Year ADES Major must complete a minimum of **57 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	33
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:251	Hazards: Causes and Physical Dynamics	3	
40:253	Hazards and Risk Assessment	3	
40:350	Hazard Mitigation and Adaptation	3	
40:351	Disaster Recovery	3	
40:352	Emergency Management Law	3	
40:362	Disaster Response Management	3	
40:470	Applied Topics - Proposal Preparation	3	
40:471	Applied Topics in ADES	3	
Additional Major Requirements:			15
Plus:	15 credit hours of additional ADES courses at the 200 level or above, of which 6 must be at the 400 level .		
Must achieve 2.00 GPA for Major requirement		Major Total:	48
Ancillary Course Requirements:			9
BA 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Arts (or Geography or Psychology) .	9	
BSc 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Science .	9	
Additional Degree Requirements:			
Plus: *	Minor requirement	Must achieve 2.00 GPA for Minor requirement	
Plus:	Multidisciplinary Education Requirement (see section 5.4)		
	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours (including prerequisites)		
Must achieve 2.00 GPA for Graduation requirement		Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [Error! Reference source not found.](#)

MINOR

Students considering an ADES minor must complete a minimum of **18 credit hours** consisting of:

Core Minor Requirements:		Cr. Hrs.	9
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
Additional Minor Requirements:			9
Plus:	9 credit hours of additional ADES courses at the 200 level or above*		
Must achieve 2.00 GPA for Minor requirement		Minor Total:	18

* Excluding, 40:470 Applied Topics - Proposal Preparation, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis.

CERTIFICATE IN DISASTER RISK MANAGEMENT (CDRM)

General Information

The ADES Certificate in Disaster Risk Management (CDRM) is a non-degree for – credit micro credential that is intended to be institutionally awarded by the Science Faculty at Brandon University. This Certificate may be applied (laddered) into a traditional degree.

The proposed micro credential is geared towards existing and potential participants and practitioners in community disaster risk management as well as community development personnel in governmental, non-governmental and civil society organizations.

Admission Requirements

Normal admission requirements to Brandon University apply. These courses are ladderable in Brandon University Degree programs.

Registration Status and Timeline

Each year, candidates are encouraged to confirm their status in the certificate program with the department chair. Students who choose to take at least one course per semester can complete the program in approximately two years.

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Prerequisites

Each candidate is responsible for meeting the prerequisites for courses specific to the certificate program.

Academic Performance

Candidates must obtain an overall grade point average of 2.50 or higher for the courses used towards certificate program and must be a good academic standing (3.18.2).

Program Requirements

The CDRM consists of 15 credit hours of coursework offered through the ADES program. Students are advised that courses may not be offered in any given year. Candidates are encouraged to discuss their timelines with the chair.

Certificate Requirements

The ADES Certificate in CDRM requires 15 credit hours of ADES courses consisting of:

Core Requirements:		Cr. Hrs.	15
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:253	Hazards and Risk Assessment	3	
40:273	Sociology of Disaster	3	
Must achieve 2.50 GPA for CDRM requirement		Certificate Total:	15

Notes:

- This certificate, which is issued by the Faculty of Science, may be completed as a stand-alone credential, or subsequently laddered into an undergraduate major or minor degree in Applied Disaster and Emergency Studies at Brandon University.
- All courses to be offered by Brandon University and transfer credit will not be considered.

COURSE DESCRIPTIONS

Note: Students are reminded that the courses as listed below may or may not be offered in any given year. Please check the [Registration Guide](#) for the final listing.

40:151 INTRODUCTION TO DISASTER STUDIES (3)

Prerequisite: Nil.

This course introduces students to the social as well as physical aspects of hazards and disasters and how these can be minimized through effective risk reduction and emergency management. Multidisciplinary and international case studies are examined with emphasis on the practical implications of differing theoretical perspectives. The fundamental models, theories and concepts at the core of emergency management and future directions in Canada and the world are explored to provide students with a solid foundation for future study.

3 lecture hours per week, one term.

40:152 INTRODUCTION TO EMERGENCY MANAGEMENT (3)

Prerequisite: Nil.

This course will provide students with a broad introduction to the current practices of emergency management and the theories that they are based on. This course will review the evolution of the current emergency management research and its professional practices. The principles and components of a comprehensive program will be presented and related to both urban and rural settings. Students will be introduced to a range of topics, including mitigation, preparedness, response, and recovery that will be further developed in later ADES courses.

3 lecture hours per week, one term.

40:153 INTRODUCTION TO NATURAL AND TECHNOLOGICAL HAZARDS (3)

Prerequisite: Nil.

This course introduces students to the natural and technological hazards that cause disasters. This course will examine the fundamentals of natural hazards and their interface with social environments. Specifically, this part will discuss geological, hydro-meteorological, and epidemiological hazards within the social content of their occurrence. This course will also discuss the dynamics of techno-social hazards, such as hazardous material and mass causality accidents, with a special emphasis on the emergence of global terrorism.

3 lecture hours per week, one term.

40:251 HAZARDS: CAUSES AND PHYSICAL DYNAMICS (3)

Prerequisite: 40:151 and 40:152 and 40:153.

Through a review of the causes of geophysical, biological, hydro-meteorological, and technological hazards and disasters, this course will examine the complex interaction of dynamic processes and of life support systems. A number of case studies dealing with earthquakes, landslides, floods, storms, droughts, and other natural and technological hazards will be critically examined.

3 lecture hours per week, one term.

40:252 EMERGENCY PLANNING AND MANAGEMENT (3)

Prerequisite: 40:151.

A study of the principles of emergency management and planning relative to a variety of natural hazards and the disasters they cause. Students will gain an understanding of associated functions and interactions of levels of government in preparing and implementing plans. An emphasis is placed on both mitigation and preparedness/response planning.

3 lecture hours per week, one term.

40:253 HAZARDS AND RISK ASSESSMENT (3)

Prerequisite: 40:251.

Through assessment of core issues and competing models, students will learn effective strategies for identifying a wide range of environmental, technical and human-induced hazards, assessing social and environmental vulnerabilities to these, and people's efforts to reduce risk. Particular attention is paid to the factors constraining and promoting effective risk assessment at the community level. Students will examine case studies of disaster risk assessment and work in groups to produce their own.

3 lecture hours per week, one term.

40:254 DISASTER MOVIES: FACT OR FICTION (3)

Prerequisite: Nil.

This course will examine how disasters and emergency management are portrayed in disaster movies and discuss the effect such movies have on how the public understands the issues. A disaster film will be viewed and discussed every week. Students will consider and contrast how the

anthropology of public health in the Global South and South Asia in particular, with special attention paid to ethnographic research of the socio-cultural, religious, and political dynamics associated with diverse healthcare settings, patient populations and therapeutic traditions. The course then critically explores the role played by transnational organizations, neoliberal governmental reforms, and non-governmental interventions in addressing the social determinants of health and reducing health disparities and morbidity and mortality rates.

Credit cannot be held for both this course and 88:556.

3 lecture hours per week, one term.

12:475 ADVANCED ARCHAEOLOGICAL METHOD AND THEORY (3)

Prerequisite: 12:353.

An examination of the objectives and processes of theory construction and research design used for the collection and interpretation of archaeological data. A seminar approach will be used to critically evaluate several theoretical paradigms in the discipline.

3 lecture hours per week, one term.

12:483 HISTORY OF PHYSICAL ANTHROPOLOGY (3)

Prerequisite: 12:284.

This course will examine the historical development of physical anthropology from its roots in the natural sciences, anatomy and medicine. Concepts of race and evolution will be discussed as well as historical trends and biases that influence the practice of physical anthropology today.

3 lecture hours per week, one term.

12:484 PALAEOPATHOLOGY (3)

Prerequisite: 12:363.

This course will provide a survey of the study of disease in past populations and highlight the importance of the relationship between culture and disease transmission. The recognition of disease processes in human skeletal remains and the importance of differential diagnosis will be emphasized. The course will cover a range of pathological conditions in human skeletons such as: non-specific indicators of stress, syphilis, tuberculosis, leprosy, anemia, metabolic disease, arthritis, tumors and trauma. The role of theory and technology in paleopathology and problems associated with assessing disease and health in past populations will be discussed.

3 lecture hours per week, one term.

12:498 THESIS (3)

Prerequisite: Permission of Chair.

A research program carried out under the guidance of a faculty member resulting in a major paper. A defense is required.

12:499 ADVANCED TOPICS IN ANTHROPOLOGY (3)

Prerequisite: Permission of Department.

An advanced course of study in one or more areas of specialization to be selected in consultation with the Department. A research project or special directed reading program undertaken by students either as individuals or in small groups, under the supervision of faculty member(s). This course consists only of library and/or field research or a special project of some kind. The results will be examined by the supervisor(s).

APPLIED DISASTER & EMERGENCY STUDIES (40)

[ADES | Brandon University](#)
[Contacts – Undergraduate Studies](#)

General Information

Students who major in Applied Disaster & Emergency Studies (ADES) can earn either a 3-year or 4-year BSc or 4-Year BA degree. ~~The BSc degree (120 credit hours) will be awarded to students who complete the 42 hours of required and elective ADES courses and 12 credit hours of ancillary courses selected from the Faculty of Science. The BA degree (120 credit hours) will be awarded to students who complete the 42 hours of required and elective ADES courses and 12 credit hours of ancillary courses from the Faculty of Arts (including Geography and Psychology).~~

The 3-year BA and BSc degrees are designed for students who are either planning a career in an aligned profession, such as the emergency services, or those who are upgrading their education mid-career. The 3-year degrees do not provide the same range of experiential and applied courses as the 4-year degrees. Students with experience in the emergency services or military are encouraged to contact the ADES Chair to discuss how prior training and knowledge can be assessed for university credit. These students may find the 3-year ADES Major Degree options more suitable.

Students with specific interest in the applied planning and management aspects or in the physical disaster science aspects of ADES are advised to plan their program and selection of compatible minor in consultation with members of the department. Students are encouraged to declare their intent to enter the ADES program as soon as practical.

~~Please note the general regulations of the University in SECTION 3222. Students accepted to BU into a 34 year degree must convert to a 43 Year degree prior to declaring the ADES major. Please contact the ADES Department or the appropriate Dean's office for more information on this simple process.~~

The 4-year degree options are intended to provide an educational foundation for students starting a career in disaster and emergency management. Students in the 4-year BA, BSc, BA (hons) or BSc(hons) are required to complete ~~Applied Topics in ADE~~ One experiential learning course (40-474) which is usually undertaken after their third year of study. ADES faculty members collaborate with a wide range of government, private sector and non-government organizations to develop project topics, co-op placements or field course experiences with ~~for the 4-year degree~~ the ADES students. Students are encouraged to discuss their interests with the ADES Chair.

~~Students with experience in the emergency services or military are encouraged to contact the ADES Chair to discuss how prior training and knowledge can be assessed for university credit.~~

A Co-operative Education (Co-op) option is available for students enrolled in the ADES Major, 4-Year and 4-Year (Honours) degrees. See the Cooperative Education Program (see section [Error! Reference source not found.](#)). Students are encouraged to contact their department to discuss program details and department specific co-op requirements and timelines.

[4-Year degree \(Honours\) requirements listed in section 5.6](#)

[4-Year degree requirements listed in section 5.9](#)

[3-Year degree requirements listed in section 5.13](#)

SECOND DEGREE REQUIREMENTS

4-Year BA and BSc second degree requirements listed in section [Error! Reference source not found.](#).

4-Year BA and BSc (Honours) second degree requirements listed in section [Error! Reference source not found.](#).

[3-Year BA and BSc second degree requirements are listed in section 5.13.3.](#)

4-YEAR DEGREE (HONOURS)

Formal application must be made to enter the Honours Degree in all departments in the Faculty of Science. Application forms are available through the [Dean of Science Office](#) or [Financial & Registration Services](#).

Students who anticipate entering the 4-Year Honours program must notify the department before registering for 40:470 Applied Topics - Proposal Preparation.

Students considering a 4-Year Degree (Honours), ADES major must complete a minimum of **60 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	36
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:251	Hazards: Causes and Physical Dynamics	3	
40:253	Hazards and Risk Assessment	3	
40:350	Hazard Mitigation and Adaptation	3	
40:351	Disaster Recovery	3	
40:352	Emergency Management Law	3	
40:362	Disaster Response Management	3	
40:3xx	Application of Research to Practice in ADES	3	
40:470	Applied Topics – Proposal Preparation	3	
40:498	Honours Thesis	3	
Choose	One of the following:		
40:456	Fields Studies in ADES	3	
40:471	Applied Topics in ADES	3	
99:251	Co-op Work Term II**	3	
Additional Major Requirements:			15
Plus:	15 credit hours of additional ADES courses at the 200 level or above, of which 6 must be at the 400 level		
Must achieve 3.00 GPA for Honours Major requirement		Major Total:	51
Ancillary Course Requirements:			9
BA 4-Year Honours Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Arts (or Geography or Psychology) .	9	
BSc 4-Year Honours Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Science .	9	
Additional Degree Requirements:			
Plus: *	Minor requirement	Must achieve 2.00 GPA for Minor requirement	
Plus:	Multidisciplinary Education Requirement (see section 5.4)		
	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours (including prerequisites)		
Must achieve 2.50 GPA for Graduation requirement		Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

** Students who select 99:251 Co-op Work Term II for their experiential learning, must take additional 3 credit hours of ADES to satisfy ADES degree requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [Error! Reference source not found.](#).

4-YEAR MAJOR

Students considering a 4-Year ADES Major must complete a minimum of **57 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	33
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:251	Hazards: Causes and Physical Dynamics	3	
40:253	Hazards and Risk Assessment	3	
40:350	Hazard Mitigation and Adaptation	3	
40:351	Disaster Recovery	3	
40:352	Emergency Management Law	3	
40:362	Disaster Response Management	3	
40:3xx	Application of Research to Practice in ADES	3	
40:470	Applied Topics - Proposal Preparation	3	
Choose	One of the following:		
40:456	Field Studies in ADES	3	
40:471	Applied Topics in ADES	3	
99:251	Co-op Work Term II**	3	
Additional Major Requirements:			15
Plus:	15 credit hours of additional ADES courses at the 200 level or above, of which 6 must be at the 400 level .		
Must achieve 2.00 GPA for Major requirement		Major Total:	48
Ancillary Course Requirements:			9
BA 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Arts (or Geography or Psychology) .	9	
BSc 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Science .	9	
Additional Degree Requirements:			
Plus: *	Minor requirement	Must achieve 2.00 GPA for Minor requirement	
Plus:	Multidisciplinary Education Requirement (see section 5.4)		
	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours (including prerequisites)		
Must achieve 2.00 GPA for Graduation requirement		Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

** Students who select 99:251 Co-op Work Term II for their experiential learning, must take additional 3 credit hours of ADES to satisfy ADES degree requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [Error! Reference source not found.](#)

MINOR

Students considering an ADES minor must complete a minimum of **18 credit hours** consisting of:

Core Minor Requirements:		Cr. Hrs.	9
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
Additional Minor Requirements:			9
Plus:	9 credit hours of additional ADES courses at the 200 level or above*		
Must achieve 2.00 GPA for Minor requirement		Minor Total:	18

* Excluding, 40:470 Applied Topics - Proposal Preparation, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis.

COURSE DESCRIPTIONS

Note: Students are reminded that the courses as listed below may or may not be offered in any given year. Please check the [Registration Guide](#) for the final listing.

40:151 INTRODUCTION TO DISASTER STUDIES (3)

Prerequisite: Nil.

This course introduces students to the social as well as physical aspects of hazards and disasters and how these can be minimized through effective risk reduction and emergency management. Multidisciplinary and international case studies are examined with emphasis on the practical

implications of differing theoretical perspectives. The fundamental models, theories and concepts at the core of emergency management and future directions in Canada and the world are explored to provide students with a solid foundation for future study.
3 lecture hours per week, one term.

40:152 INTRODUCTION TO EMERGENCY MANAGEMENT (3)

Prerequisite: Nil.

This course will provide students with a broad introduction to the current practices of emergency management and the theories that they are based on. This course will review the evolution of the current emergency management research and its professional practices. The principles and components of a comprehensive program will be presented and related to both urban and rural settings. Students will be introduced to a range of topics, including mitigation, preparedness, response, and recovery that will be further developed in later ADES courses.

3 lecture hours per week, one term.

40:153 INTRODUCTION TO NATURAL AND TECHNOLOGICAL HAZARDS (3)

Prerequisite: Nil.

This course introduces students to the natural and technological hazards that cause disasters. This course will examine the fundamentals of natural hazards and their interface with social environments. Specifically, this part will discuss geological, hydro-meteorological, and epidemiological hazards within the social content of their occurrence. This course will also discuss the dynamics of techno-social hazards, such as hazardous material and mass causality accidents, with a special emphasis on the emergence of global terrorism.

3 lecture hours per week, one term.

40:251 HAZARDS: CAUSES AND PHYSICAL DYNAMICS (3)

Prerequisite: 40:151 and 40:152 and 40:153.

Through a review of the causes of geophysical, biological, hydro-meteorological, and technological hazards and disasters, this course will examine the complex interaction of dynamic processes and of life support systems. A number of case studies dealing with earthquakes, landslides, floods, storms, droughts, and other natural and technological hazards will be critically examined.

3 lecture hours per week, one term.

40:252 EMERGENCY PLANNING AND MANAGEMENT (3)

Prerequisite: 40:151.

A study of the principles of emergency management and planning relative to a variety of natural hazards and the disasters they cause. Students will gain an understanding of associated functions and interactions of levels of government in preparing and implementing plans. An emphasis is placed on both mitigation and preparedness/response planning.

3 lecture hours per week, one term.

40:253 HAZARDS AND RISK ASSESSMENT (3)

Prerequisite: 40:251.

Through assessment of core issues and competing models, students will learn effective strategies for identifying a wide range of environmental, technical and human-induced hazards, assessing social and environmental vulnerabilities to these, and people's efforts to reduce risk. Particular attention is paid to the factors constraining and promoting effective risk assessment at the community level. Students will examine case studies of disaster risk assessment and work in groups to produce their own.

3 lecture hours per week, one term.

40:254 DISASTER MOVIES: FACT OR FICTION (3)

Prerequisite: Nil.

This course will examine how disasters and emergency management are portrayed in disaster movies and discuss the effect such movies have on how the public understands the issues. A disaster film will be viewed and discussed every week. Students will consider and contrast how the relevant science and common myths are presented in this important popular culture medium and how the public's perception of disasters and emergency management is defined by these representations. Through the course students will become aware of their own misconceptions and the need for emergency management to be based on fact instead of fiction.

3 lecture hours per week, one term.

40:273 SOCIOLOGY OF DISASTER (3)

Prerequisite: 3 credit hours at the 100 level of Sociology or Applied Disaster.

This course examines the theoretical perspectives, research, and policy issues in the sociological study of disaster with an interdisciplinary approach. Considerable attention will be given to the cultural, social, economic and political aspects of a wide range of natural disasters and catastrophic events such as hurricanes, earthquakes, floods, famines, epidemics, oil spills, plane crashes, nuclear plant accidents, terrorism, colonization of indigenous peoples, and wars.

Cross-registered with (Sociology) 90:273.

3 lecture hours per week, one term.

40:350 HAZARD MITIGATION AND ADAPTATION (3)

Prerequisite: 40:253.

This course explores disaster risk reduction, hazard mitigation and adaptation within an all-hazards framework. The course will primarily examine current activities and future options in Canada with comparisons to other jurisdictions. Lectures and assignments will connect research literature to current best practices. The course will consider the role of climate instability in mitigation and adaptation decisions. Classes will focus on application of theories into practice. Rural Development and Environmental Science students will also benefit from understanding the community/environment interface from this perspective.

Credit cannot be held for both this course and 40:355.

3 lecture hours per week, one term.

40:351 DISASTER RECOVERY (3)

Prerequisite: 40:151 and 40:152.

This course explores current research and practices in disaster recovery, focusing on how communities manage both short- and long-term recovery processes. The primary goal of disaster recovery is to "build back better", addressing vulnerabilities through comprehensive recovery planning to reduce future risks. Furthermore, the recovery plan should take into account both physical and social infrastructure reconstruction and rehabilitation, ensuring that communities can build their vital services and support systems for greater resilience. Students will create a community profile of a Canadian city to serve as a case study, allowing them to apply their knowledge in designing a pre-event recovery plan.

Credit cannot be held for both this course and 40:355.

3 lecture hours per week, one term.

40:352 EMERGENCY MANAGEMENT LAW (3)

Prerequisite: 40:151 and 40:152.

This course provides an overview of the Canadian law that is relevant to emergency management. Federal, provincial and municipal legislation, by-laws and regulations will be examined for their implications on mitigation, preparedness, response and recovery. Students will also consider how fundamental legal concepts apply in the context of disasters and influence emergency management. Case studies and international comparisons will be used to highlight these issues.

3 lecture hours per week, one term.

40:353 HEALTH SECTOR EMERGENCY MANAGEMENT (3)

Prerequisite: 40:152.

This course provides a focused discussion of the emergency management issues facing the Canadian health sector. The functions and policies of federal, provincial and regional organizations and their implications for the health sector's involvement in mitigation, preparedness, response and recovery activities will be examined. Students will also consider how different hazards, including pandemic disease outbreaks, terrorism, and mass casualty incidents, affect roles and responsibilities within the health sector. Case studies and international comparisons will be used to highlight these issues.

3 lecture hours per week, one term.

40:354 GENDER AND DISASTER (3)

Prerequisite: 40:151 and 3 credit hours of Applied Disaster.

This course introduces students to theoretical debates, research traditions and practical applications in the study of gender relations in disaster contexts. Course materials are multidisciplinary and international with emphasis on the lives of girls and women differently at risk in societies at different levels of development. Case studies are used to explore connections between gender equality and increased resilience to environmental, technical and/or human-induced hazards and disasters in the 21st century.

Cross-registered with (Gender and Women's Studies) 36:354.
3 lecture hours per week, one term.

40:356 SOCIAL VULNERABILITY ASSESSMENT IN DISASTER MANAGEMENT (3)

Prerequisite: 40:151 and 40:152.

This course examines theoretical perspectives on social vulnerability and translates them into practical approaches for vulnerability assessment in disaster management. It examines how intersecting factors, such as race, ethnicity, gender, socioeconomic status, age, and physical or mental disabilities, shape vulnerability across social, build, and natural environments before, during, and after disasters. Students will engage with a range of assessment tools and models related to social vulnerability and develop essential skills in vulnerability assessment, a critical component of disaster risk and impact analysis for effective disaster management strategies.

3 lecture hours per week, one term.

40:357 GEOSPATIAL TOOLS FOR DISASTER AND EMERGENCY MANAGEMENT (3)

Prerequisites: 40:151 or 40:152.

This course will expose students to the theoretical and practical context of geospatial technology as a disaster risk management tool. The course will involve a strong laboratory/practical component that will facilitate the application of the theoretical and conceptual foundations to real emergency management scenarios such as flood hazard assessment, drought, wildfire prediction, potential for epidemiological outbreak, as well as assessments and prediction of social and technological risks.

3 lecture hours per week, one term.

40:362 DISASTER RESPONSE MANAGEMENT (3)

Prerequisite: 40:253 and 40:352.

This course focuses on the theory and practice of how organizations manage their responses to emergencies and disasters. The use of incident management systems, emergency operation centres and other response techniques are considered from conceptual and practical perspectives. Disaster warning systems, evacuation planning, emergency social services, and related topics are examined. The course includes lab work in which students apply a selection of tools and techniques to become familiar with the roles of community members, government and non-government organizations and the private sector through activities in the Emergency Operations Lab (EOL).

3 lecture hours per week, 3 laboratory hours per week, one term.

40:3xx APPLICATION OF RESEARCH TO PRACTICE IN ADES (3)

Prerequisite: 15 Credit hours of Applied Disaster.

Professional disaster risk reduction and comprehensive emergency management practices often involve commissioning, conducting, and assessing research. This course guides students through the process of developing and implementing research in practice including the identification and development of potential topics and the use of appropriate methodologies. These skills are complemented by course lectures covering research and professional ethics, project management and evaluation, and report writing. These skills are key for students to succeed in experiential learning, preparing for the honour's thesis, and transitioning into the profession as an evidence-based practitioner.

3 lecture hours per week, one term.

40:399 DIRECTED STUDIES IN APPLIED DISASTER AND EMERGENCY STUDIES (3)

Prerequisite: Permission of Instructor.

This course provides a program of directed study in an area of applied disaster and emergency studies selected in consultation with the department and conducted under the supervision of a faculty member. The intent of this course is to provide students with an opportunity to investigate topical area(s) of the discipline through a review of current literature, collection and analysis of data/information, and/or application of techniques not covered at length by current course offerings. Results are typically presented in the form of a major paper or technical report submitted to the department.

40:452 DISASTER AND DEVELOPMENT (3)

Prerequisite: 3 credit hours of Applied Disaster at the 200 level or higher.

The principles and practices of sustainable economic, social and environmental development are examined in relation to environmental, technical and/or human-induced hazards and disasters. The course brings an international perspective to consideration of how global, national and local development decisions affect the risk of disaster and how hazard mitigation, disaster impacts, and post-disaster relief and recovery processes in turn affect development. Case studies from lesser developed countries and regions as well as affluent societies are used to help students develop a critical perspective on the inter-relationships between development and disaster at the regional, national and local levels. Good practices, successful strategies and the preconditions for social change to reduce disaster risk are emphasized.

3 lecture hours per week, one term.

40:453 DISASTER RISK COMMUNICATION (3)

Prerequisite: 40:253.

This course presents students both theoretical and applied issues in disaster risk communication. Four main questions will be explored: Who creates what kinds of information about hazards and disasters, how and why? What must emergency managers and the public, respectively, know and when? How and to whom would this information be communicated, why and when? What lessons have disaster researchers learned about how people, organizations, communities and governments move from knowledge to action? Of particular interest in this class are emergency warning systems, community education strategies, barriers to effective communication and new innovations, cultural diversity and other concerns of the risk communicator. Drawing on national and international case studies, students will examine these issues in diverse cultural and institutional contexts.

3 lecture hours per week, one term.

40:454 INTERNATIONAL COMPARISONS IN EMERGENCY MANAGEMENT (3)

Prerequisite: 40:352.

This course provides students with the opportunity to compare emergency management systems in different countries or jurisdictions. Examining the current practices in different settings will highlight how emergency management is linked to the broader physical, political, economic and social context. Students will understand how different histories have resulted in the variations in legislative frameworks and organizational relationships. The four phases of comprehensive emergency management will each yield topics for consideration including mitigation planning, public awareness programs, incident management systems, and community recovery. Students will adopt one country or issue to study and represent in this seminar-format course.

3 lecture hours per week, one term.

40:455 CURRENT ISSUES IN EMERGENCY MANAGEMENT (3)

Prerequisite: 18 credit hours of Applied Disaster.

This course uses a recent or currently unfolding disaster or significant issue to highlight the theories and concepts of emergency management and to refine the advanced student's disaster studies skills. Each year a new event or current issue will be selected as the focus of the course. Therefore, there will be an annual variation in the emphasis; however, each year will address mitigation, preparedness, response, and recovery issues. The social, physical and economic context and the disaster's or issue's consequences on these factors will be examined. Implications for changes to legislation and best practices will be identified. Students should contact the ADES department for more information on upcoming offerings.

3 lecture hours per week, one term.

40:456 FIELD STUDIES IN ADES (3)

Prerequisite: ~~40:452 and 40:454.~~ 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair

This course is designed to provide students experience and instruction in the theoretical and applied aspects of conducting fieldwork to study problems in various aspects of disaster studies and emergency

management practice. Coursework will involve a mix of classroom instruction and field research/observation. Students will use a variety of data collection strategies, sampling techniques, and specific field methods, equipment and procedures commonly used for disaster and emergency management research. This is followed by analysis and oral/or written presentation of findings. The course involves a fieldwork component in Canada or abroad and the specific destination and duration will be arranged each time the course is offered. Students may be responsible for the costs of travel, meals and accommodations related to the fieldwork component with further information on the logistics being provided in the course outline.

3 lecture hours per week, one term.

40:457 COMMUNITY-BASED RESEARCH APPROACHES FOR UNDERSTANDING DISASTER RISK (3)

Prerequisite: 3 credit hours of Applied Disaster at the 200 level or higher. This course introduces various research methods and techniques with a specific focus on community-based participatory action research approaches to understand the interface between social and physical aspects of disasters. Students learn methodologies that allow them to understand the interactions among disaster vulnerability, existing hazards, and community resilience in the context of Brandon community. Because participatory action research requires an on-going collaborative process of learning, students are regularly reminded of collective learning and how to achieve this research approach. Students are involved in developing and organizing various class activities which will aid in preparing for their own research topic and methods that are primarily participatory. The course also involves activities that promote community engagement by exploring and discovering potential community partners for research collaboration. Each year, student's disaster research projects and their outcomes contribute to course development for future years. Credit cannot be held for both this course and 40:657.

3 seminar hours per week, one term.

40:463 HAZARD MITIGATION IN LAND-USE PLANNING (3)

Prerequisite: 40:355.

This course will focus on the integration of hazard mitigation into land-use planning. The course will primarily examine current practices and future options in Canada with comparisons to the United States, New Zealand, the United Kingdom and other jurisdictions. It is a readings based course with the emphasis on the student's analysis of the current literature. The course will build on the foundation established in Disaster Recovery and Mitigation (40:355). Rural development and environmental science students will also benefit from understanding the planning process from this perspective.

3 seminar hours per week, one term.

~~**40:470 APPLIED TOPICS - PROPOSAL PREPARATION (3)**~~

~~Prerequisite: 24 credit hours of Applied Disaster.~~

~~This course guides students through the development of an Applied Topics practicum proposal suitable for either a BSc or BA degree. It involves identifying potential topics, discussing appropriate research~~

~~methodologies and preparing an Applied Topics proposal. The students will also conduct a literature review in support of their topics. This course will help students connect with hosts and arrange their placements for 40:471 Applied Topics in ADES and 40:498 Honours Thesis. The course will encourage peer discussion and review proposals. This course will be delivered primarily through team teaching allowing student access to and interaction with all ADES faculty to assist in the assignment of a suitable faculty advisor. Student wishing to take this course early are encouraged to seek permission.~~

~~3 lecture hours per week, one term.~~

40:471 APPLIED TOPICS IN ADES (3)

Prerequisite: ~~40:470~~ 40:3xx Application of Research to Practice in ADES with "B-" "C+" or better grade and permission of Chair.

The purpose of this course is to provide applied disaster and emergency management experience in a supervised research setting that is geared towards the integration of theory and practice. Emphasis will be placed on the application of concepts, principles and skills acquired from the ADES curriculum. Each student will undertake a research project within the disaster and emergency management field including municipal, provincial, and federal governments, industry, relief and voluntary organizations. The topics course will include hands-on experience in disaster and emergency management issues through an applied project culminating in a final report.

3 hours per week, one term.

40:498 HONOURS THESIS (3)

Prerequisite: ~~40:470 and 40:471.~~ 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair.

This course allows Honours students the opportunity to include additional academic research to complement their experience in 40:471 Applied Topics in ADES. The focus is on the production of a "publication quality" thesis that contributes to the continued advancement of their disaster and emergency studies and is intended to prepare students for further graduate level research.

This course is required by and limited to students enrolled in the ADES 4-Year Honours degree. ~~40:471 and this course are usually taken consecutively but may be taken concurrently with permission.~~

40:499 DIRECTED READINGS IN APPLIED DISASTER AND EMERGENCY STUDIES (3)

Prerequisite: Permission of Department.

This course is designed to enable a student to acquaint him/her-self more fully with a sub-field of Applied Disaster and Emergency Studies knowledge by means of a series of readings in the subfield concerned. Students will normally be expected to submit a paper(s) based on the readings involved.

anthropology of public health in the Global South and South Asia in particular, with special attention paid to ethnographic research of the socio-cultural, religious, and political dynamics associated with diverse healthcare settings, patient populations and therapeutic traditions. The course then critically explores the role played by transnational organizations, neoliberal governmental reforms, and non-governmental interventions in addressing the social determinants of health and reducing health disparities and morbidity and mortality rates. Credit cannot be held for both this course and 88:556. 3 lecture hours per week, one term.

12:475 ADVANCED ARCHAEOLOGICAL METHOD AND THEORY (3)
Prerequisite: 12:353.

An examination of the objectives and processes of theory construction and research design used for the collection and interpretation of archaeological data. A seminar approach will be used to critically evaluate several theoretical paradigms in the discipline. 3 lecture hours per week, one term.

12:483 HISTORY OF PHYSICAL ANTHROPOLOGY (3)
Prerequisite: 12:284.

This course will examine the historical development of physical anthropology from its roots in the natural sciences, anatomy and medicine. Concepts of race and evolution will be discussed as well as historical trends and biases that influence the practice of physical anthropology today. 3 lecture hours per week, one term.

12:484 PALAEOPATHOLOGY (3)
Prerequisite: 12:363.

This course will provide a survey of the study of disease in past populations and highlight the importance of the relationship between culture and disease transmission. The recognition of disease processes in human skeletal remains and the importance of differential diagnosis will be emphasized. The course will cover a range of pathological conditions in human skeletons such as: non-specific indicators of stress, syphilis, tuberculosis, leprosy, anemia, metabolic disease, arthritis, tumors and trauma. The role of theory and technology in paleopathology and problems associated with assessing disease and health in past populations will be discussed. 3 lecture hours per week, one term.

12:498 THESIS (3)
Prerequisite: Permission of Chair.

A research program carried out under the guidance of a faculty member resulting in a major paper. A defense is required.

12:499 ADVANCED TOPICS IN ANTHROPOLOGY (3)
Prerequisite: Permission of Department.

An advanced course of study in one or more areas of specialization to be selected in consultation with the Department. A research project or special directed reading program undertaken by students either as individuals or in small groups, under the supervision of faculty member(s). This course consists only of library and/or field research or a special project of some kind. The results will be examined by the supervisor(s).

APPLIED DISASTER & EMERGENCY STUDIES (40)

[ADES | Brandon University](#)
[Contacts – Undergraduate Studies](#)

General Information

Students who major in Applied Disaster & Emergency Studies (ADES) can earn either a 3-year or 4-year BSc or BA degree.

The 3-year BA and BSc degrees are designed for students who are either planning a career in an aligned profession, such as the emergency services, or those who are upgrading their education mid-career. The 3-year degrees do not provide the same range of experiential and applied courses as the 4-year degrees. Students with experience in the emergency services or military are encouraged to contact the ADES Chair to discuss how prior training and knowledge can be assessed for university credit. These students may find the 3-year ADES Major Degree options more suitable.

Students with specific interest in the applied planning and management aspects or in the physical disaster science aspects of ADES are advised to plan their program and selection of compatible minor in consultation with members of the department. Students are encouraged to declare their intent to enter the ADES program as soon as practical.

The 4-year degree options are intended to provide an educational foundation for students starting a career in disaster and emergency management. Students in the 4-year BA, BSc, BA (hons) or BSc(hons) are required to complete one experiential learning course which is usually undertaken after their third year of study. ADES faculty members collaborate with a wide range of government, private sector and non-government organizations to develop project topics, co-op placements or field course experiences for the 4-year degree ADES students. Students are encouraged to discuss their interests with the ADES Chair.

A Co-operative Education (Co-op) option is available for students enrolled in the ADES Major, 4-Year and 4-Year (Honours) degrees. See the Cooperative Education Program (see section [Error! Reference source not found.](#)). Students are encouraged to contact their department to discuss program details and department specific co-op requirements and timelines.

4-Year degree (Honours) requirements listed in section 5.6

4-Year degree requirements listed in section 5.9

3-Year degree requirements listed in section 5.13

SECOND DEGREE REQUIREMENTS

4-Year BA and BSc second degree requirements listed in section [Error! Reference source not found.](#).

4-Year BA and BSc (Honours) second degree requirements listed in section [Error! Reference source not found.](#).

3-Year BA and BSc second degree requirements are listed in section 5.13.3.

4-YEAR DEGREE (HONOURS)

Formal application must be made to enter the Honours Degree in all departments in the Faculty of Science. Application forms are available through the [Dean of Science Office](#) or [Financial & Registration Services](#).

Students who anticipate entering the 4-Year Honours program must notify the department before registering for 40:470 Applied Topics - Proposal Preparation.

Students considering a 4-Year Degree (Honours), ADES major must complete a minimum of **60 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	36
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:251	Hazards: Causes and Physical Dynamics	3	
40:253	Hazards and Risk Assessment	3	
40:350	Hazard Mitigation and Adaptation	3	
40:351	Disaster Recovery	3	
40:352	Emergency Management Law	3	
40:362	Disaster Response Management	3	
40:3xx	Application of Research to Practice in ADES	3	
40:498	Honours Thesis	3	
Choose	One of the following:		
40:456	Fields Studies in ADES	3	
40:471	Applied Topics in ADES	3	
99:251	Co-op Work Term II**	3	
Additional Major Requirements:			15
Plus:	15 credit hours of additional ADES courses at the 200 level or above, of which 6 must be at the 400 level		
Must achieve 3.00 GPA for Honours Major requirement		Major Total:	51
Ancillary Course Requirements:			9
BA 4-Year Honours Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Arts (or Geography or Psychology) .	9	
BSc 4-Year Honours Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Science .	9	
Additional Degree Requirements:			
Plus: *	Minor requirement Must achieve 2.00 GPA for Minor requirement		
Plus:	Multidisciplinary Education Requirement (see section 5.4)		
	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours (including prerequisites)		
Must achieve 2.50 GPA for Graduation requirement		Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

** Students who select 99:251 Co-op Work Term II for their experiential learning, must take additional 3 credit hours of ADES to satisfy ADES degree requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [Error! Reference source not found.](#).

4-YEAR MAJOR

Students considering a 4-Year ADES Major must complete a minimum of **57 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	33
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
40:251	Hazards: Causes and Physical Dynamics	3	
40:253	Hazards and Risk Assessment	3	
40:350	Hazard Mitigation and Adaptation	3	
40:351	Disaster Recovery	3	
40:352	Emergency Management Law	3	
40:362	Disaster Response Management	3	
40:3xx	Application of Research to Practice in ADES	3	
Choose	One of the following:		
40:456	Field Studies in ADES	3	
40:471	Applied Topics in ADES	3	
99:251	Co-op Work Term II**	3	
Additional Major Requirements:			15
Plus:	15 credit hours of additional ADES courses at the 200 level or above, of which 6 must be at the 400 level .		

	Must achieve 2.00 GPA for Major requirement	Major Total:	48
Ancillary Course Requirements:			9
BA 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Arts (or Geography or Psychology) .	9	
BSc 4-Year Major:	Students must complete a total of 9 ancillary credit hours at the 200 level or above. These courses must be selected from at least 2 other departments in the Faculty of Science .	9	
Additional Degree Requirements:			
Plus: *	Minor requirement	Must achieve 2.00 GPA for Minor requirement	
Plus:	Multidisciplinary Education Requirement (see section 5.4)		
	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours (including prerequisites)		
	Must achieve 2.00 GPA for Graduation requirement	Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

** Students who select 99:251 Co-op Work Term II for their experiential learning, must take additional 3 credit hours of ADES to satisfy ADES degree requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [Error! Reference source not found.](#)

MINOR

Students considering an ADES minor must complete a minimum of **18 credit hours** consisting of:

Core Minor Requirements:		Cr. Hrs.	9
40:151	Introduction to Disaster Studies	3	
40:152	Introduction to Emergency Management	3	
40:153	Introduction to Natural and Technological Hazards	3	
Additional Minor Requirements:			9
Plus:	9 credit hours of additional ADES courses at the 200 level or above*		
	Must achieve 2.00 GPA for Minor requirement	Minor Total:	18

* Excluding, 40:470 Applied Topics - Proposal Preparation, 40:471 Applied Topics in ADES, and 40:498 Honours Thesis.

COURSE DESCRIPTIONS

Note: Students are reminded that the courses as listed below may or may not be offered in any given year. Please check the [Registration Guide](#) for the final listing.

40:151 INTRODUCTION TO DISASTER STUDIES (3)

Prerequisite: Nil.

This course introduces students to the social as well as physical aspects of hazards and disasters and how these can be minimized through effective risk reduction and emergency management. Multidisciplinary and international case studies are examined with emphasis on the practical implications of differing theoretical perspectives. The fundamental models, theories and concepts at the core of emergency management and future directions in Canada and the world are explored to provide students with a solid foundation for future study.

3 lecture hours per week, one term.

40:152 INTRODUCTION TO EMERGENCY MANAGEMENT (3)

Prerequisite: Nil.

This course will provide students with a broad introduction to the current practices of emergency management and the theories that they are based on. This course will review the evolution of the current emergency management research and its professional practices. The principles and components of a comprehensive program will be presented and related to both urban and rural settings. Students will be introduced to a range of topics, including mitigation, preparedness, response, and recovery that will be further developed in later ADES courses.

3 lecture hours per week, one term.

40:153 INTRODUCTION TO NATURAL AND TECHNOLOGICAL HAZARDS (3)

Prerequisite: Nil.

This course introduces students to the natural and technological hazards that cause disasters. This course will examine the fundamentals of natural hazards and their interface with social environments. Specifically, this part will discuss geological, hydro-meteorological, and epidemiological hazards within the social content of their occurrence. This course will also discuss the dynamics of techno-social hazards, such as hazardous material and

mass causality accidents, with a special emphasis on the emergence of global terrorism.

3 lecture hours per week, one term.

40:251 HAZARDS: CAUSES AND PHYSICAL DYNAMICS (3)

Prerequisite: 40:151 and 40:152 and 40:153.

Through a review of the causes of geophysical, biological, hydro-meteorological, and technological hazards and disasters, this course will examine the complex interaction of dynamic processes and of life support systems. A number of case studies dealing with earthquakes, landslides, floods, storms, droughts, and other natural and technological hazards will be critically examined.

3 lecture hours per week, one term.

40:252 EMERGENCY PLANNING AND MANAGEMENT (3)

Prerequisite: 40:151.

A study of the principles of emergency management and planning relative to a variety of natural hazards and the disasters they cause. Students will gain an understanding of associated functions and interactions of levels of government in preparing and implementing plans. An emphasis is placed on both mitigation and preparedness/response planning.

3 lecture hours per week, one term.

40:253 HAZARDS AND RISK ASSESSMENT (3)

Prerequisite: 40:251.

Through assessment of core issues and competing models, students will learn effective strategies for identifying a wide range of environmental, technical and human-induced hazards, assessing social and environmental vulnerabilities to these, and people's efforts to reduce risk. Particular attention is paid to the factors constraining and promoting effective risk assessment at the community level. Students will examine case studies of disaster risk assessment and work in groups to produce their own.

3 lecture hours per week, one term.

40:254 DISASTER MOVIES: FACT OR FICTION (3)

Prerequisite: Nil.

This course will examine how disasters and emergency management are portrayed in disaster movies and discuss the effect such movies have on how the public understands the issues. A disaster film will be viewed and discussed every week. Students will consider and contrast how the relevant science and common myths are presented in this important popular culture medium and how the public's perception of disasters and emergency management is defined by these representations. Through the course students will become aware of their own misconceptions and the need for emergency management to be based on fact instead of fiction.

3 lecture hours per week, one term.

40:273 SOCIOLOGY OF DISASTER (3)

Prerequisite: 3 credit hours at the 100 level of Sociology or Applied Disaster.

This course examines the theoretical perspectives, research, and policy issues in the sociological study of disaster with an interdisciplinary approach. Considerable attention will be given to the cultural, social, economic and political aspects of a wide range of natural disasters and catastrophic events such as hurricanes, earthquakes, floods, famines, epidemics, oil spills, plane crashes, nuclear plant accidents, terrorism, colonization of indigenous peoples, and wars.

Cross-registered with (Sociology) 90:273.

3 lecture hours per week, one term.

40:350 HAZARD MITIGATION AND ADAPTATION (3)

Prerequisite: 40:253.

This course explores disaster risk reduction, hazard mitigation and adaptation within an all-hazards framework. The course will primarily examine current activities and future options in Canada with comparisons to other jurisdictions. Lectures and assignments will connect research literature to current best practices. The course will consider the role of climate instability in mitigation and adaptation decisions. Classes will focus on application of theories into practice. Rural Development and Environmental Science students will also benefit from understanding the community/environment interface from this perspective.

Credit cannot be held for both this course and 40:355.

3 lecture hours per week, one term.

40:351 DISASTER RECOVERY (3)

Prerequisite: 40:151 and 40:152.

This course explores current research and practices in disaster recovery, focusing on how communities manage both short- and long-term recovery processes. The primary goal of disaster recovery is to "build back better", addressing vulnerabilities through comprehensive recovery planning to reduce future risks. Furthermore, the recovery plan should take into account both physical and social infrastructure reconstruction and rehabilitation, ensuring that communities can build their vital services and support systems for greater resilience. Students will create a community profile of a Canadian city to serve as a case study, allowing them to apply their knowledge in designing a pre-event recovery plan.

Credit cannot be held for both this course and 40:355.

3 lecture hours per week, one term.

40:352 EMERGENCY MANAGEMENT LAW (3)

Prerequisite: 40:151 and 40:152.

This course provides an overview of the Canadian law that is relevant to emergency management. Federal, provincial and municipal legislation, by-laws and regulations will be examined for their implications on mitigation, preparedness, response and recovery. Students will also consider how fundamental legal concepts apply in the context of disasters and influence emergency management. Case studies and international comparisons will be used to highlight these issues.

3 lecture hours per week, one term.

40:353 HEALTH SECTOR EMERGENCY MANAGEMENT (3)

Prerequisite: 40:152.

This course provides a focused discussion of the emergency management issues facing the Canadian health sector. The functions and policies of

federal, provincial and regional organizations and their implications for the health sector's involvement in mitigation, preparedness, response and recovery activities will be examined. Students will also consider how different hazards, including pandemic disease outbreaks, terrorism, and mass casualty incidents, affect roles and responsibilities within the health sector. Case studies and international comparisons will be used to highlight these issues.

3 lecture hours per week, one term.

40:354 GENDER AND DISASTER (3)

Prerequisite: 40:151 and 3 credit hours of Applied Disaster.

This course introduces students to theoretical debates, research traditions and practical applications in the study of gender relations in disaster contexts. Course materials are multidisciplinary and international with emphasis on the lives of girls and women differently at risk in societies at different levels of development. Case studies are used to explore connections between gender equality and increased resilience to environmental, technical and/or human-induced hazards and disasters in the 21st century.

Cross-registered with (Gender and Women's Studies) 36:354.

3 lecture hours per week, one term.

40:356 SOCIAL VULNERABILITY ASSESSMENT IN DISASTER MANAGEMENT (3)

Prerequisite: 40:151 and 40:152.

This course examines theoretical perspectives on social vulnerability and translates them into practical approaches for vulnerability assessment in disaster management. It examines how intersecting factors, such as race, ethnicity, gender, socioeconomic status, age, and physical or mental disabilities, shape vulnerability across social, build, and natural environments before, during, and after disasters. Students will engage with a range of assessment tools and models related to social vulnerability and develop essential skills in vulnerability assessment, a critical component of disaster risk and impact analysis for effective disaster management strategies.

3 lecture hours per week, one term.

40:357 GEOSPATIAL TOOLS FOR DISASTER AND EMERGENCY MANAGEMENT (3)

Prerequisites: 40:151 or 40:152.

This course will expose students to the theoretical and practical context of geospatial technology as a disaster risk management tool. The course will involve a strong laboratory/practical component that will facilitate the application of the theoretical and conceptual foundations to real emergency management scenarios such as flood hazard assessment, drought, wildfire prediction, potential for epidemiological outbreak, as well as assessments and prediction of social and technological risks

3 lecture hours per week, one term.

40:362 DISASTER RESPONSE MANAGEMENT (3)

Prerequisite: 40:253 and 40:352.

This course focuses on the theory and practice of how organizations manage their responses to emergencies and disasters. The use of incident management systems, emergency operation centres and other response techniques are considered from conceptual and practical perspectives. Disaster warning systems, evacuation planning, emergency social services, and related topics are examined. The course includes lab work in which students apply a selection of tools and techniques to become familiar with the roles of community members, government and non-government organizations and the private sector through activities in the Emergency Operations Lab (EOL).

3 lecture hours per week, 3 laboratory hours per week, one term.

40:3xx APPLICATION OF RESEARCH TO PRACTICE IN ADES (3)

Prerequisite: 15 Credit hours of Applied Disaster.

Professional disaster risk reduction and comprehensive emergency management practices often involve commissioning, conducting, and assessing research. This course guides students through the process of developing and implementing research in practice including the identification and development of potential topics and the use of appropriate methodologies. These skills are complemented by course lectures covering research and professional ethics, project management and evaluation, and report writing. These skills are key for students to

succeed in experiential learning, preparing for the honour's thesis, and transitioning into the profession as an evidence-based practitioner.
3 lecture hours per week, one term.

40:399 DIRECTED STUDIES IN APPLIED DISASTER AND EMERGENCY STUDIES (3)

Prerequisite: Permission of Instructor.

This course provides a program of directed study in an area of applied disaster and emergency studies selected in consultation with the department and conducted under the supervision of a faculty member. The intent of this course is to provide students with an opportunity to investigate topical area(s) of the discipline through a review of current literature, collection and analysis of data/information, and/or application of techniques not covered at length by current course offerings. Results are typically presented in the form of a major paper or technical report submitted to the department.

40:452 DISASTER AND DEVELOPMENT (3)

Prerequisite: 3 credit hours of Applied Disaster at the 200 level or higher.

The principles and practices of sustainable economic, social and environmental development are examined in relation to environmental, technical and/or human-induced hazards and disasters. The course brings an international perspective to consideration of how global, national and local development decisions affect the risk of disaster and how hazard mitigation, disaster impacts, and post-disaster relief and recovery processes in turn affect development. Case studies from lesser developed countries and regions as well as affluent societies are used to help students develop a critical perspective on the inter-relationships between development and disaster at the regional, national and local levels. Good practices, successful strategies and the preconditions for social change to reduce disaster risk are emphasized.
3 lecture hours per week, one term.

40:453 DISASTER RISK COMMUNICATION (3)

Prerequisite: 40:253.

This course presents students both theoretical and applied issues in disaster risk communication. Four main questions will be explored: Who creates what kinds of information about hazards and disasters, how and why? What must emergency managers and the public, respectively, know and when? How and to whom would this information be communicated, why and when? What lessons have disaster researchers learned about how people, organizations, communities and governments move from knowledge to action? Of particular interest in this class are emergency warning systems, community education strategies, barriers to effective communication and new innovations, cultural diversity and other concerns of the risk communicator. Drawing on national and international case studies, students will examine these issues in diverse cultural and institutional contexts.
3 lecture hours per week, one term.

40:454 INTERNATIONAL COMPARISONS IN EMERGENCY MANAGEMENT (3)

Prerequisite: 40:352.

This course provides students with the opportunity to compare emergency management systems in different countries or jurisdictions. Examining the current practices in different settings will highlight how emergency management is linked to the broader physical, political, economic and social context. Students will understand how different histories have resulted in the variations in legislative frameworks and organizational relationships. The four phases of comprehensive emergency management will each yield topics for consideration including mitigation planning, public awareness programs, incident management systems, and community recovery. Students will adopt one country or issue to study and represent in this seminar-format course.
3 lecture hours per week, one term.

40:455 CURRENT ISSUES IN EMERGENCY MANAGEMENT (3)

Prerequisite: 18 credit hours of Applied Disaster.

This course uses a recent or currently unfolding disaster or significant issue to highlight the theories and concepts of emergency management and to refine the advanced student's disaster studies skills. Each year a

new event or current issue will be selected as the focus of the course. Therefore, there will be an annual variation in the emphasis; however, each year will address mitigation, preparedness, response, and recovery issues. The social, physical and economic context and the disaster's or issue's consequences on these factors will be examined. Implications for changes to legislation and best practices will be identified. Students should contact the ADES department for more information on upcoming offerings.
3 lecture hours per week, one term.

40:456 FIELD STUDIES IN ADES (3)

Prerequisite: 3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair

This course is designed to provide students experience and instruction in the theoretical and applied aspects of conducting fieldwork to study problems in various aspects of disaster studies and emergency management practice. Coursework will involve a mix of classroom instruction and field research/observation. Students will use a variety of data collection strategies, sampling techniques, and specific field methods, equipment and procedures commonly used for disaster and emergency management research. This is followed by analysis and oral/or written presentation of findings. The course involves a fieldwork component in Canada or abroad and the specific destination and duration will be arranged each time the course is offered. Students may be responsible for the costs of travel, meals and accommodations related to the fieldwork component with further information on the logistics being provided in the course outline.
3 lecture hours per week, one term.

40:457 COMMUNITY-BASED RESEARCH APPROACHES FOR UNDERSTANDING DISASTER RISK (3)

Prerequisite: 3 credit hours of Applied Disaster at the 200 level or higher. This course introduces various research methods and techniques with a specific focus on community-based participatory action research approaches to understand the interface between social and physical aspects of disasters. Students learn methodologies that allow them to understand the interactions among disaster vulnerability, existing hazards, and community resilience in the context of Brandon community. Because participatory action research requires an on-going collaborative process of learning, students are regularly reminded of collective learning and how to achieve this research approach. Students are involved in developing and organizing various class activities which will aid in preparing for their own research topic and methods that are primarily participatory. The course also involves activities that promote community engagement by exploring and discovering potential community partners for research collaboration. Each year, student's disaster research projects and their outcomes contribute to course development for future years. Credit cannot be held for both this course and 40:657.
3 seminar hours per week, one term.

40:463 HAZARD MITIGATION IN LAND-USE PLANNING (3)

Prerequisite: 40:355.

This course will focus on the integration of hazard mitigation into land-use planning. The course will primarily examine current practices and future options in Canada with comparisons to the United States, New Zealand, the United Kingdom and other jurisdictions. It is a readings based course with the emphasis on the student's analysis of the current literature. The course will build on the foundation established in Disaster Recovery and Mitigation (40:355). Rural development and environmental science students will also benefit from understanding the planning process from this perspective.
3 seminar hours per week, one term.

40:471 APPLIED TOPICS IN ADES (3)

Prerequisite: 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair.

The purpose of this course is to provide applied disaster and emergency management experience in a supervised research setting that is geared towards the integration of theory and practice. Emphasis will be placed on the application of concepts, principles and skills acquired from the ADES curriculum. Each student will undertake a research project within the disaster and emergency management field including municipal,

provincial, and federal governments, industry, relief and voluntary organizations. The topics course will include hands-on experience in disaster and emergency management issues through an applied project culminating in a final report.
3 hours per week, one term.

40:498 HONOURS THESIS (3)

Prerequisite: 40:3xx Application of Research to Practice in ADES with "B-" or better grade and permission of Chair.

This course allows Honours students the opportunity to include additional academic research to complement their experience in 40:471 Applied Topics in ADES. The focus is on the production of a "publication quality" thesis that contributes to the continued advancement of their disaster and emergency studies and is intended to prepare students for further graduate level research.

This course is required by and limited to students enrolled in the ADES

4-Year Honours degree.

40:499 DIRECTED READINGS IN APPLIED DISASTER AND EMERGENCY STUDIES (3)

Prerequisite: Permission of Department.

This course is designed to enable a student to acquaint him/her-self more fully with a sub-field of Applied Disaster and Emergency Studies knowledge by means of a series of readings in the subfield concerned. Students will normally be expected to submit a paper(s) based on the readings involved.



SUBJECT TO APPROVAL

MOTION NO. 184.MAY26

AGENDA ITEM NO. 6.4.3.2.5

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: Chemistry New Courses

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following new courses, as submitted by the Department of Chemistry, Faculty of Science:

- 18:314/CHEM 3012 – Advanced Organic Chemistry
- 18.440/CHEM 4010 – Natural Product Synthesis
- 18.441/CHEM 4011 – Advanced Synthesis Laboratory

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

New Course #	18:314/CHEM 3012
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A. NEW COURSE DETAILSLevel of Study: Undergraduate Graduate

Course Level: 300/3000

Start Term & Year: Fall 2026

Faculty/School: Science

Senate Office Note: The form was originally submitted to have changes occur in the 2026 calendar, however, there were no extenuating circumstances that would permit a retroactive change. This change will be reflected/come into effect on September 1, 2027.

Department: Chemistry (18)

Subject Identifier (ex. GEOG):

Course Title: Advanced Organic Chemistry

Course Hours: 36

Short Title: Adv Organic Chem

Course Type: Lecture

Term Duration: One Term

Hrs/wk: 3

Lab hrs/wk:

Prerequisite(s): None

 Specific Course(s): 18:271 Organic Chemistry II: Reactions and Synthesis
Permission of:

OR

AND/OR

Corequisite(s): None

Specific Course(s):

AND/OR


Antirequisite(s): None

Specific Course(s):

Cannot Be Held With: 18:361 Advanced Organic Chemistry

Cross-Listed With:

Include Course In (check all that apply):

- Required major core courses
- Major group/area/"plus" lists: Please see attached document as it is required for one of the Honours 
- Required minor core courses
- Minor group/area/"plus" lists:
- Liberal Education List

Additional Information/Clarification:

We are deleting 18:361 Advanced Organic Chemistry, a course that has a laboratory and replacing it with this course 18:3XX Advanced Organic Chemistry, a course without a laboratory. We are making a new Advanced Synthesis Lab course to make up the missing laboratory component.

B. NEW COURSE CALENDAR INFORMATION**Calendar Description:**

This course covers enolate chemistry extensively and introduces use of chiral auxiliaries. Application of organometallic reagents to asymmetric synthesis is also investigated. Advanced conformational analysis, olefination, heterocyclic and pericyclic chemistry is also explored in detail.

Calendar Placement:

Replace this course in all areas that had 18:361. See highlighted area on the course calendar

C. LIBRARY CONSULTATION

Before a new course proposal can be forwarded to the Undergraduate Studies Committee (USC) or the Graduate Studies Committee (GSC) for consideration, formal consultation with the University Library is required, and a Library Impact Statement must be submitted to the appropriate Dean's Office.

The Library Collection Analysis Request form is available online at <https://brandonu.libwizard.com/f/LibraryAnalysisRequest>.

- A Library Collection Analysis Request has been submitted to the Library for review.
- A Library Impact Statement has been returned by the Library and is available in the Dean's Office.
- This is a variable content course (such as a Topics/Tutorials or Readings course) where the content covered will differ significantly from one offering to another; accordingly, a Library Collection Analysis is not required.

D. REQUIRED SUPPORTING DOCUMENTATION

- Detailed Course Outline

E. RATIONALE/ADDITIONAL INFORMATION

Enter a detailed rationale for the creation of this new course. Provide sufficient detail on how the proposed course meets degree outcomes and improves curriculum development in the program.

The Department of Chemistry is proposing to remove the labs from 18:361 Advanced Organic Chemistry and 18:471 Natural Product Synthesis and replace the missing lab component with a new stand-alone lab-based course 18:4ZZ Advanced Synthesis Laboratory. To do this we need to delete the current courses and propose three new courses (18:3XX Advanced Organic Chemistry, 18:4XX Natural Product Synthesis, and 18:4ZZ Advanced Synthesis Laboratory). The rationale for these changes is as follows:

1 - Student Centered

Currently students are required a total of 7 contact hours per week in 18:361 and 18:471 (3hrs lecture, 4 hrs lab). Students are not getting credit for this additional work. Breaking these components into two provides two courses that reflect the normal contact hours of other courses.

2 – Pedagogy

As it stands now, the laboratory component in the two courses is limited to reflect the course content, i.e. specific reactions or strategies. Having a stand-alone laboratory course allows us to provide the technical, experiential learning without being limited to the choice of reactions. Additionally, a laboratory course is ideal suited for the spring or summer sessions where students can work in the laboratory under conditions they would find in industry or a research setting. So experiments don't fit nicely into a four-hour block which, under the current system requires an "open lab" concept where student come in outside of normal lab hours to complete some tasks.

3 – Scheduling and Workload

As stated above, having the opportunity to offer a course in the spring/summer semester will be novel for Chemistry. Additionally, it makes pedagogical sense and provides students with opportunities they haven't had. From a Departmental workload perspective, it also makes sense, courses with labs have a higher credit hour which at times reduces the flexibility and choices of other courses that can be offered in that academic year. We envision two members of the department being able to teach the new 18:4ZZ course whereas only one member could teach 18:361 and 18:471.



F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: March 18, 2026

Dean's Approval Date: March 18, 2026

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-05-07

Calendar

Edit Date:

Senate

Approval/Completion Date:

Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

New Course #	18:440/CHEM 4010
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A. NEW COURSE DETAILSLevel of Study: Undergraduate Graduate

Course Level: 400/4000

Start Term & Year:

Faculty/School: Science

Senate Office Note: The form was originally submitted to have changes occur in the 2026 calendar, however, there were no extenuating circumstances that would permit a retroactive change. This change will be reflected/come into effect on September 1, 2027.

Department: Chemistry (18)

Subject Identifier (ex. GEOG):

Course Title: Natural Product Synthesis

Course Hours: 36

Short Title: Nat Prod Synthesis

Course Type: Lecture

Term Duration: One Term

Hrs/wk: 3

Lab hrs/wk:

Prerequisite(s): None

 Specific Course(s): 18:271 Organic Chemistry II: Reactions and Synthesis
Permission of:

OR

AND/OR

Corequisite(s): None

Specific Course(s):

AND/OR


Antirequisite(s): None

Specific Course(s):

Cannot Be Held With: 18:471 Natural Product Synthesis

Cross-Listed With:

Include Course In (check all that apply):

- Required major core courses
- Major group/area/"plus" lists: Please see attached document as it is required for one of the Honours 
- Required minor core courses
- Minor group/area/"plus" lists:
- Liberal Education List

Additional Information/Clarification:

We are deleting 18:471 Natural Product Synthesis, a course that has a laboratory and replacing it with this course 18:4XX Natural Product Synthesis a course without a laboratory. We are making a new Advanced Synthesis Lab course to make up the missing laboratory component.

B. NEW COURSE CALENDAR INFORMATION**Calendar Description:**

This course focuses on the rich field of natural product synthesis. Retrosynthetic analysis is used to breakdown the target molecule into simpler starting materials. Strategies using the natural chiral pool (synthon) and enantioselective synthesis are demonstrated. Numerous examples of natural product synthesis from the literature are explored highlighting innovative, creative strategies.

Calendar Placement:

Replace this course in all areas that had 18:471. See highlighted area on the course calendar

C. LIBRARY CONSULTATION

Before a new course proposal can be forwarded to the Undergraduate Studies Committee (USC) or the Graduate Studies Committee (GSC) for consideration, formal consultation with the University Library is required, and a Library Impact Statement must be submitted to the appropriate Dean's Office.

The Library Collection Analysis Request form is available online at <https://brandonu.libwizard.com/f/LibraryAnalysisRequest>.

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- A Library Impact Statement has been returned by the Library and is available in the Dean's Office.
- This is a variable content course (such as a Topics/Tutorials or Readings course) where the content covered will differ significantly from one offering to another; accordingly, a Library Collection Analysis is not required.

D. REQUIRED SUPPORTING DOCUMENTATION

- Detailed Course Outline

E. RATIONALE/ADDITIONAL INFORMATION

Enter a detailed rationale for the creation of this new course. Provide sufficient detail on how the proposed course meets degree outcomes and improves curriculum development in the program.

The Department of Chemistry is proposing to remove the labs from 18:361 Advanced Organic Chemistry and 18:471 Natural Product Synthesis and replace the missing lab component with a new stand-alone lab-based course 18:4ZZ Advanced Synthesis Laboratory. To do this we need to delete the current courses and propose three new courses (18:3XX Advanced Organic Chemistry, 18:4XX Natural Product Synthesis, and 18:4ZZ Advanced Synthesis Laboratory). The rationale for these changes is as follows:

1 - Student Centered

Currently students are required a total of 7 contact hours per week in 18:361 and 18:471 (3hrs lecture, 4 hrs lab). Students are not getting credit for this additional work. Breaking these components into two provides two courses that reflect the normal contact hours of other courses.

2 – Pedagogy

As it stands now, the laboratory component in the two courses is limited to reflect the course content, i.e. specific reactions or strategies. Having a stand-alone laboratory course allows us to provide the technical, experiential learning without being limited to the choice of reactions. Additionally, a laboratory course is ideal suited for the spring or summer sessions where students can work in the laboratory under conditions they would find in industry or a research setting. So experiments don't fit nicely into a four-hour block which, under the current system requires an "open lab" concept where student come in outside of normal lab hours to complete some tasks.

3 – Scheduling and Workload

As stated above, having the opportunity to offer a course in the spring/summer semester will be novel for Chemistry. Additionally, it makes pedagogical sense and provides students with opportunities they haven't had. From a Departmental workload perspective, it also makes sense, courses with labs have a higher credit hour which at times reduces the flexibility and choices of other courses that can be offered in that academic year. We envision two members of the department being able to teach the new 18:4ZZ course whereas only one member could teach 18:361 and 18:471.



F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: March 18, 2026

Dean's Approval Date: March 18, 2026

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-05-07

Calendar

Edit Date:

Senate

Approval/Completion Date:

Senate approved changes will come into effect on September 1, 2027.

SENATE OFFICE USE ONLY

New Course #	18:441/CHEM 4011
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A. NEW COURSE DETAILS

Level of Study: Undergraduate Graduate

Course Level: 400/4000

Start Term & Year: Spring 2027-2028 Academic Year

Faculty/School: Science

Senate Office Note: The form was originally submitted to have changes occur in the 2026 calendar, however, there were no extenuating circumstances that would permit a retroactive change. This change will be reflected/come into effect on September 1, 2027.

Department: Chemistry (18)

Subject Identifier (ex. GEOG):

Course Title: Advanced Synthesis Laboratory

Short Title: Adv Synthesis Lab

Course Hours: 36

Term Duration:

Course Type: Lab

Hrs/wk: Lab hrs/wk: 3

Prerequisite(s): None
 Specific Course(s): 18:271 or 18:274
 Permission of:

OR

AND/OR

Corequisite(s): None
 Specific Course(s):

AND/OR

Antirequisite(s): None
 Specific Course(s):

Cannot Be Held With:

Cross-Listed With:

Include Course In (check all that apply):

- Required major core courses
- Major group/area/"plus" lists: See attached program document, listed on two Honours Degrees
- Required minor core courses
- Minor group/area/"plus" lists:
- Liberal Education List

Additional Information/Clarification:

This is a laboratory course.

B. NEW COURSE CALENDAR INFORMATION**Calendar Description:**

This course provides students with the opportunity to learn and master experimental techniques used in a modern synthetic laboratory. These techniques include, but are not limited to, working under inert atmospheres, with anhydrous conditions and safety using pyrophoric materials. There is a significant component based upon experimental design, data analysis, maintaining proper laboratory notebook and report writing. Students will be expected to be able to design and complete their experiment, isolate and purify the products then perform structural elucidation using NMR Spectroscopy. This course will normally be offered in the spring session so students are strongly encourage to enroll after their second or third year.

Calendar Placement:

Include in the list for the Synthetic Organic and Organometallic Honours Specializations (see program mark-up document)

C. LIBRARY CONSULTATION

Before a new course proposal can be forwarded to the Undergraduate Studies Committee (USC) or the Graduate Studies Committee (GSC) for consideration, formal consultation with the University Library is required, and a Library Impact Statement must be submitted to the appropriate Dean's Office.

The Library Collection Analysis Request form is available online at <https://brandonu.libwizard.com/f/LibraryAnalysisRequest>.

- A Library Collection Analysis Request has been submitted to the Library for review.
- A Library Impact Statement has been returned by the Library and is available in the Dean's Office.
- This is a variable content course (such as a Topics/Tutorials or Readings course) where the content covered will differ significantly from one offering to another; accordingly, a Library Collection Analysis is not required.

D. REQUIRED SUPPORTING DOCUMENTATION

- Detailed Course Outline

E. RATIONALE/ADDITIONAL INFORMATION

Enter a detailed rationale for the creation of this new course. Provide sufficient detail on how the proposed course meets degree outcomes and improves curriculum development in the program.

The Department of Chemistry is proposing to remove the labs from 18:361 Advanced Organic Chemistry and 18:471 Natural Product Synthesis and replace the missing lab component with a new stand-alone lab-based course 18:4ZZ Advanced Synthesis Laboratory. To do this we need to delete the current courses and propose three new courses (18:3XX Advanced Organic Chemistry, 18:4XX Natural Product Synthesis, and 18:4ZZ Advanced Synthesis Laboratory). The rationale for these changes is as follows:

1 - Student Centered

Currently students are required a total of 7 contact hours per week in 18:361 and 18:471 (3hrs lecture, 4 hrs lab). Students are not getting credit for this additional work. Breaking these components into two provides two courses that reflect the normal contact hours of other courses.

2 – Pedagogy

As it stands now, the laboratory component in the two courses is limited to reflect the course content, i.e. specific reactions or strategies. Having a stand-alone laboratory course allows us to provide the technical, experiential learning without being limited to the choice of reactions. Additionally, a laboratory course is ideal suited for the spring or summer sessions where students can work in the laboratory under conditions they would find in industry or a research setting. So experiments don't fit nicely into a four-hour block which, under the current system requires an "open lab" concept where student come in outside of normal lab hours to complete some tasks.

3 – Scheduling and Workload

As stated above, having the opportunity to offer a course in the spring/summer semester will be novel for Chemistry. Additionally, it makes pedagogical sense and provides students with opportunities they haven't had. From a Departmental workload perspective, it also makes sense, courses with labs have a higher credit hour which at times reduces the flexibility and choices of other courses that can be offered in that academic year. We envision two members of the department being able to teach the new 18:4ZZ course whereas only one member could teach 18:361 and 18:471.



F. APPROVALS

Cross-Listed Dept. Approval Date:

Faculty Council Approval Date: March 18, 2026

Dean's Approval Date: March 18, 2026

SENATE OFFICE USE ONLY

USC/GSC

Approval/Completion Date: 2026-05-07

Calendar

Edit Date:

Senate

Approval/Completion Date:



SUBJECT TO APPROVAL

MOTION NO. 185.MAY26

AGENDA ITEM NO. 6.4.3.2.6

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: Chemistry Course Deletions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following course deletions, as submitted by the Department of Chemistry, Faculty of Science:

- 18:361 – Advanced Organic Chemistry
- 18:471 – Natural Products Synthesis

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

DEFINITIONS – COURSE DELETION PROPOSAL FORM

A. COURSE DELETION REQUEST DETAILS

Level of Study	Indicator distinguishing undergraduate courses from graduate courses
Course Number	The 5-digit numeric course identifier (example: 16:151)
Course Title	The title of the course proposed for deletion
Faculty/School	The Faculty/School proposing the course deletion
Department	The specific department proposing the course deletion
Cross-Listed Courses	Where agreement has been made with another department to have the proposed course recognized by that department towards its major/minor requirements, the other department's/departments' associated course number(s) must be listed in this field.

Senate approved changes will come into effect on September 1, 2025.

A. COURSE DELETION REQUEST DETAILS

Level of Study: Undergraduate Graduate
 Course Number: 18:471 Faculty/School: Science
 Course Title: Natural Products Synthesis Department: Chemistry (18)
 Cross-Listed Course(s): N/A
 Delete Cross-Listed Course(s)? Yes No

B. COURSE DELETION CALENDAR INFORMATION

Include all locations this course should be deleted in the upcoming Calendar.

From the Chemistry section (tables, description, etc)

C. RATIONALE

A similar course without a lab is replacing this course.

D. APPROVALS

Cross-Listed Dept Approval Date:

Faculty Council Approval Date: March 18, 2026

Dean's Approval Date: March 18, 2026

SENATE OFFICE USE ONLY

CAP/GSC	Approval/Completion Date 2026-05-07	Senate	Approval/Completion Date
	Calendar	F & R Services	Copy Sent
	Edit Date		

DEFINITIONS – COURSE DELETION PROPOSAL FORM

A. COURSE DELETION REQUEST DETAILS

Level of Study	Indicator distinguishing undergraduate courses from graduate courses
Course Number	The 5-digit numeric course identifier (example: 16:151)
Course Title	The title of the course proposed for deletion
Faculty/School	The Faculty/School proposing the course deletion
Department	The specific department proposing the course deletion
Cross-Listed Courses	Where agreement has been made with another department to have the proposed course recognized by that department towards its major/minor requirements, the other department's/departments' associated course number(s) must be listed in this field.



SUBJECT TO APPROVAL

MOTION NO. 186.MAY26

AGENDA ITEM NO. 6.4.3.2.7

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: Chemistry Curriculum & Program Revisions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves the following curriculum & program revisions, as submitted by the Department of Chemistry, Faculty of Science:

- Undergraduate Calendar Revisions

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

March 2nd, 2026

To: Dr. Christophe Lemoine, Dean of Science

From: Department of Chemistry

RE: Course and Calendar Changes 2026

The Department of Chemistry is proposing to remove the labs from 18:361 Advanced Organic Chemistry and 18:471 Natural Product Synthesis and replace the missing lab component with a new stand-alone lab-based course 18:4ZZ Advanced Synthesis Laboratory. To do this we need to delete the current courses and propose three new courses (18:3XX Advanced Organic Chemistry, 18:4XX Natural Product Synthesis, and 18:4ZZ Advanced Synthesis Laboratory). The rationale for these changes is as follows:

1 - Student Centered

Currently students are required a total of 7 contact hours per week in 18:361 and 18:471 (3hrs lecture, 4 hrs lab). Students are not getting credit for this additional work. Breaking these components into two provides two courses that reflect the normal contact hours of other courses.

2 – Pedagogy

As it stands now, the laboratory component in the two courses is limited to reflect the course content, i.e. specific reactions or strategies. Having a stand-alone laboratory course allows us to provide the technical, experiential learning without being limited to the choice of reactions. Additionally, a laboratory course is ideal suited for the spring or summer sessions where students can work in the laboratory under conditions they would find in industry or a research setting. So experiments don't fit nicely into a four-hour block which, under the current system requires an "open lab" concept where student come in outside of normal lab hours to complete some tasks.

3 – Scheduling and Workload

As stated above, having the opportunity to offer a course in the spring/summer semester will be novel for Chemistry. Additionally, it makes pedagogical sense and provides students with opportunities they haven't had. From a Departmental workload perspective, it also makes sense, courses with labs have a higher credit hour which at times reduces the flexibility and choices of other courses that can be offered in that academic year. We envision two members of the department being able to teach the new 18:4ZZ course whereas only one member could teach 18:361 and 18:471.

Finally, the new 18:4ZZ Advanced Synthesis Laboratory course could be used in both the Organometallic and Synthetic Organic Honours specializations. We have included this in the program calendar.

CHEMISTRY (18)

[Chemistry | Brandon University](#)
[Contacts – Undergraduate Studies](#)

General Information

The Department of Chemistry offers a 4-year Honours, 4-year, and 3-year Chemistry Major as well as a Minor. The 4-year Honours and 4-year Majors are modelled after the Canadian Society for Chemistry accreditation guidelines. The 4-year Honours Major allows for specialization within a subdiscipline of chemistry (Biochemistry, Bioanalytical Chemistry, Organometallic Chemistry, Physical Chemistry or Synthetic Organic Chemistry) which is particularly attractive for students entering graduate or professional programs after graduation.

Students should note that because most 300 and 400 level courses are cycled every other year, it is essential that students who are considering a Chemistry major seek advice from a faculty member in the Chemistry Department during their second year. After declaring as a Chemistry major, students will be assigned a faculty mentor, who will serve as an academic advisor for the duration of their studies. Please note the general regulations of the University in [SECTION 3](#).

A Co-operative Education (Co-op) option is available for students enrolled in a Chemistry Major, 4-Year or 4-Year (Honours) degree. See the Cooperative Education Program (section [5.5](#)). Students are encouraged to contact their department to discuss program details and department specific co-op requirements and timelines.

General Requirements

Chemistry 40S and Pre-Calculus Mathematics 40S (or their equivalents) are required for entry into 18:160 General Chemistry I. Applied Mathematics 40S can be used in place of Pre-Calculus 40S although Pre-Calculus is preferred. All 200 level first term courses (18:260, 18:261, 18:262, 18:274, and 18:281) require a "C" grade or better in both 18:160 General Chemistry I and 18:170 General Chemistry II. Additionally, the required courses 18:260 Classical Physical Chemistry has 62:191 Calculus II as a prerequisite whereas 18:363 Introductory Biochemistry has 15:162 Cells, Genetics, and Evolution as a prerequisite. It is strongly recommended that all Chemistry Majors enroll in 15:162, 15:163, 62:181, and 62:191 in their first year of study to avoid issues over missing prerequisites. 4-year Honours and 4-year Majors are strongly encouraged to complete the two required first year Physics courses in their first year to avoid scheduling conflicts in future years.

Required Courses in Chemistry

The 4-year Honours and 4-year Majors are modelled after the Canadian Society for Chemistry accreditation guidelines. These guidelines state each of the sub-disciplines (Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry) be included within the degree program. Each Major is required to take 24 credit hours of core courses which include one course in each of Biochemistry (18:363), Inorganic (18:274), Organic (18:261), Physical (18:260) and two courses of Analytical (18:262 and 18:362) in addition to the two first year General Chemistry Courses (18:160 and 18:170).

Common to all 4-year Honours and 4-year Majors

Core Major Requirements:		Cr. Hrs.	24
18:160	General Chemistry I	3	
18:170	General Chemistry II	3	
18:260	Classical Physical Chemistry: Thermodynamics	3	
18:261	Organic Chemistry I: Structure and Mechanisms	3	
18:262	Introductory Analytical Chemistry	3	
18:274	Inorganic Chemistry I: Principles of Inorganic Chemistry	3	
18:362	Instrumental Analysis	3	
18:363	Introductory Biochemistry	3	

SECOND DEGREE REQUIREMENTS

4-Year B.Sc. (Honours) second degree requirements listed in section [5.6.3](#).

4-Year B.Sc. second degree requirements listed in section [5.9.3](#).

3-Year B.Sc. second degree requirements are listed in section [5.13.3](#).

4-YEAR DEGREE (HONOURS)

Formal application must be made to enter the Honours Degree in all departments in the Faculty of Science. Application forms are available through the [Dean of Science Office](#) or [Financial & Registration Services](#).

The 4-year Honours Chemistry Major allows qualified senior students to conduct independent research under the supervision of faculty members in the Department of Chemistry through the 18:449 Honours Thesis in Chemistry course. When applying into the Honours degree program and meeting with potential thesis supervisors, the opportunity for specialization within a subdiscipline can be determined if the research project is appropriate. There are five specializations: Biochemistry, Bioanalytical Chemistry, Organometallic Chemistry, Physical Chemistry, and Synthetic Organic Chemistry in addition to a non-specialization Honours Major. Students are strongly encouraged to seek a supervisor at the end of third year and admission into the program is contingent on departmental approval.

A minimum GPA of 3.00 in the first 30 credit hours of Chemistry courses is required for entry into the program.

Students considering a 4-Year (Honours) Major in Chemistry must complete a minimum of **60 credit hours** consisting of:

Core Major Requirements: (see table above)		Cr. Hrs.	24
Honours Thesis Requirement:			6
18:449	Honours Thesis in Chemistry	6	
Additional Major Requirement:			30

Choose:	30 credit hours of additional Chemistry courses at the 200/300/400 level, of which 6 must be at the 400 level		
	Must achieve 3.00 GPA for Honours Major requirement	Major Total:	60
Ancillary Course Requirements:			15
62:181 MATH	Calculus I		3
62:191 MATH	Calculus II		3
74:151/161	General Physics I or Foundations of Physics I		3
74:152/162	General Physics II or Foundations of Physics II		3
15:162	Cells, Genetics and Evolution		3
Additional Degree Requirements:			
Plus: *	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see section 5.4)		
	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours		
	Must achieve 2.50 GPA for Graduation requirement	Degree Total:	120

* See appropriate Minor requirements for credit hour requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section 5.6.

BIOCHEMISTRY SPECIALIZATION

Students considering a 4-Year (Honours) Major in Chemistry (Biochemistry Specialization) must complete a minimum of 60 credit hours consisting of:

Core Major Requirements: (see table above)		Cr. Hrs.	24
Honours Thesis Requirement: Biochemistry focus			6
18:449	Honours Thesis in Chemistry (Biochemistry focus)	6	
Required Courses: Biochemistry focus			9
18:352	Nucleic Acids Biochemistry	3	
18:373	Intermediary Metabolism and Human Metabolic Disorders	3	
Choose one of:			
18:399 or	Topics in Chemistry (Biochemistry focus)	3	
18:499	Research Topics in Chemistry (Biochemistry focus)		
18:453	Drugs and Behaviour	3	
18:455	Mass-Spectroscopy-Based Proteomics	3	
18:491	Molecular Medicine	3	
Additional Major Requirement:			21
Choose:	21 credit hours of additional Chemistry courses at the 200/300/400 level*		
	A total of 6CH of courses must be at the 400 level**		
	Must achieve 3.00 GPA for Honours Major requirement	Major Total:	60
Ancillary Course Requirements:			15
62:181 MATH	Calculus I		3
62:191 MATH	Calculus II		3
74:151/161	General Physics I or Foundations of Physics I		3
74:152/162	General Physics II or Foundations of Physics II		3
15:162	Cells, Genetics and Evolution		3
Additional Degree Requirements:			
Plus: ***	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see Section 5.4)		
	Indigenous Content Course Requirement (see Section 3.11)		
Plus:	Additional elective credit hours		
	Must achieve 2.50 GPA for Graduation requirement	Degree Total:	120

*Courses not used for the Biochemistry Specialization option can be included in these credit hours

**The 6CH of 400 level can include courses listed in the Specialization option excluding 18:449

*** See appropriate Minor requirements for credit hour requirement

Notes: May only count 6 credit hours of 090/091 courses

Residence and other degree requirements listed in section 5.6

BIOANALYTICAL SPECIALIZATION

Students considering a 4-Year (Honours) Major in Chemistry (Bioanalytical Specialization) must complete a minimum of 60 credit hours consisting of:

Core Major Requirements: (see table above)		Cr. Hrs.	24
Honours Thesis Requirement: Bioanalytical focus			6
18:449	Honours Thesis in Chemistry (Bioanalytical focus)	6	
Required Courses: Bioanalytical focus			9
18:455	Mass Spectroscopy-Based Proteomics	3	
Choose two of:			
18:352	Nucleic Acids Biochemistry	3	
18:373	Intermediary Metabolism and Human Metabolic Disorders	3	
18:399 or	Topics in Chemistry (Bioanalytical focus)	3	
18:499	Research Topics in Chemistry (Bioanalytical focus)		

18:456	Computational Chemistry	3	
Additional Major Requirement:			21
Choose:	21 credit hours of additional Chemistry courses at the 200/300/400 level* A total of 6CH of courses must be at the 400 level**		
Must achieve 3.00 GPA for Honours Major requirement		Major Total:	60
Ancillary Course Requirements:			15
62:181 MATH	Calculus I	3	
62:191 MATH	Calculus II	3	
74:151/161	General Physics I or Foundations of Physics I	3	
74:152/162	General Physics II or Foundations of Physics II	3	
15:162	Cells, Genetics and Evolution	3	
Additional Degree Requirements:			
Plus: ***	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see Section 5.4)		
	Indigenous Content Course Requirement (see Section 3.11)		
Plus:	Additional elective credit hours		
Must achieve 2.50 GPA for Graduation requirement		Degree Total:	120

*Courses not used for the Bioanalytical Specialization option can be included in these credit hours

**The 6CH of 400 level can include courses listed in the Specialization option excluding 18:449

*** See appropriate Minor requirements for credit hour requirement

Notes: May only count 6 credit hours of 090/091 courses

Residence and other degree requirements listed in section 5.6

ORGANOMETALLIC SPECIALIZATION

Students considering a 4-Year (Honours) Major in Chemistry (Organometallic Specialization) must complete a minimum of 60 credit hours consisting of:

Core Major Requirements: (see table above)		Cr. Hrs.	24
Honours Thesis Requirement: Organometallic focus			6
18:449	Honours Thesis in Chemistry (Organometallic focus)	6	
Required Courses: Organometallic focus			9
18:364	Inorganic Chemistry II: Coordination Chemistry	3	
Choose two of:			
18:351	Inorganic Spectroscopic and Structural Methods	3	
18:42Z	Advanced Synthesis Laboratory	3	
18:399 or	Topics in Chemistry (Organometallic focus)	3	
18:499	Research Topics in Chemistry (Organometallic focus)	3	
18:456	Computational Chemistry	3	
18:474	Advanced Organometallic Chemistry and Catalysis	3	
Additional Major Requirement:			21
Choose:	21 credit hours of additional Chemistry courses at the 200/300/400 level* A total of 6CH of courses must be at the 400 level**		
Must achieve 3.00 GPA for Honours Major requirement		Major Total:	60
Ancillary Course Requirements:			15
62:181 MATH	Calculus I	3	
62:191 MATH	Calculus II	3	
74:151/161	General Physics I or Foundations of Physics I	3	
74:152/162	General Physics II or Foundations of Physics II	3	
15:162	Cells, Genetics and Evolution	3	
Additional Degree Requirements:			
Plus: ***	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see Section 5.4)		
	Indigenous Content Course Requirement (see Section 3.11)		
Plus:	Additional elective credit hours		
Must achieve 2.50 GPA for Graduation requirement		Degree Total:	120

*Courses not used for the Organometallic Specialization option can be included in these credit hours

**The 6CH of 400 level can include courses listed in the Specialization option excluding 18:449

*** See appropriate Minor requirements for credit hour requirement

Notes: May only count 6 credit hours of 090/091 courses

Residence and other degree requirements listed in section 5.6

PHYSICAL CHEMISTRY SPECIALIZATION

Students considering a 4-Year (Honours) Major in Chemistry (Physical Chemistry Specialization) must complete a minimum of 60 credit hours consisting of:

Core Major Requirements: (see table above)		Cr. Hrs.	24
Honours Thesis Requirement: Physical Chemistry focus			6
18:449	Honours Thesis in Chemistry (Physical Chemistry focus)	6	
Required Courses: Physical Chemistry focus			9
18:360	Quantum Chemistry and Spectroscopy	3	
Choose two of:			
18:270	Classical Physical Chemistry: Electrochemistry and Kinetics	3	

18:399 or 18:499	Topics in Chemistry (Physical Chemistry focus) Research Topics in Chemistry (Physical Chemistry focus)	3	
18:456	Computational Chemistry	3	
Additional Major Requirement:			21
Choose:	21 credit hours of additional Chemistry courses at the 200/300/400 level* A total of 6CH of courses must be at the 400 level**		
Must achieve 3.00 GPA for Honours Major requirement		Major Total:	60
Ancillary Course Requirements:			15
62:181 MATH	Calculus I	3	
62:191 MATH	Calculus II	3	
74:151/161	General Physics I or Foundations of Physics I	3	
74:152/162	General Physics II or Foundations of Physics II	3	
15:162	Cells, Genetics and Evolution	3	
Additional Degree Requirements:			
Plus: ***	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see Section 5.4)		
	Indigenous Content Course Requirement (see Section 3.11)		
Plus:	Additional elective credit hours		
Must achieve 2.50 GPA for Graduation requirement		Degree Total:	120

*Courses not used for the Physical Chemistry Specialization option can be included in these credit hours

**The 6CH of 400 level can include courses listed in the Specialization option excluding 18:449

*** See appropriate Minor requirements for credit hour requirement

Notes: May only count 6 credit hours of 090/091 courses

Residence and other degree requirements listed in section 5.6

SYNTHETIC ORGANIC SPECIALIZATION

Students considering a 4-Year (Honours) Major in Chemistry (Synthetic Organic Specialization) must complete a minimum of **60 credit hours** consisting of:

Core Major Requirements: (see table above)		Cr. Hrs.	24
Honours Thesis Requirement: Synthetic Organic focus			6
18:449	Honours Thesis in Chemistry (Synthetic Organic focus)	6	
Required Courses: Synthetic Organic focus			9
18:271	Organic Chemistry II: Reactions and Synthesis	3	
Choose two of:			
18:281	Applied Organic Spectroscopy	3	
18:432Z	Advanced Synthesis Laboratory	3	
18:361	Advanced Organic Chemistry	3	
18:399 or 18:499	Topics in Chemistry (Synthetic Organic focus) Research Topics in Chemistry (Synthetic Organic focus)	3	
18:471	Natural Product Synthesis	3	
Additional Major Requirement:			21
Choose:	21 credit hours of additional Chemistry courses at the 200/300/400 level* A total of 6CH of courses must be at the 400 level**		
Must achieve 3.00 GPA for Honours Major requirement		Major Total:	60
Ancillary Course Requirements:			15
62:181 MATH	Calculus I	3	
62:191 MATH	Calculus II	3	
74:151/161	General Physics I or Foundations of Physics I	3	
74:152/162	General Physics II or Foundations of Physics II	3	
15:162	Cells, Genetics and Evolution	3	
Additional Degree Requirements:			
Plus: ***	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see Section 5.4)		
	Indigenous Content Course Requirement (see Section 3.11)		
Plus:	Additional elective credit hours		
Must achieve 2.50 GPA for Graduation requirement		Degree Total:	120

*Courses not used for the Synthetic Organic Specialization option can be included in these credit hours

**The 6CH of 400 level can include courses listed in the Specialization option excluding 18:449

*** See appropriate Minor requirements for credit hour requirement

Notes: May only count 6 credit hours of 090/091 courses

Residence and other degree requirements listed in section 5.6

4-YEAR MAJOR

Students considering a 4-Year Chemistry Major must complete a minimum of **54 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	24
18:160	General Chemistry I	3	
18:170	General Chemistry II	3	
18:261	Organic Chemistry I: Structure and Mechanisms	3	

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Commented [BH2]: New Course Number

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18:260	Classical Physical Chemistry: Thermodynamics	3	
18:262	Introductory Analytical Chemistry	3	
18:362	Instrumental Analysis	3	
18:274	Inorganic Chemistry I: Principles of Inorganic Chemistry	3	
18:363	Introductory Biochemistry	3	
Additional Major Requirement:			30
Choose:	30 credit hours of additional Chemistry courses at the 200/300/400 level , of which 6 must be at the 400 level		
Must achieve 2.00 GPA for Major requirement		Major Total:	54
Ancillary Course Requirements:			15
62:181 MATH	Calculus I	3	
62:191 MATH	Calculus II	3	
74:151/161	General Physics I or Foundations of Physics I	3	
74:152/162	General Physics II or Foundations of Physics II	3	
15:162	Cells, Genetics and Evolution	3	
Additional Degree Requirements:			
Plus: *	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see section 5.4)		
Plus:	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours		
Must achieve 2.00 GPA for Graduation requirement		Degree Total:	120

* See appropriate Minor requirements for credit hour requirement

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [5.9](#).

3-YEAR MAJOR

Students considering a 3-Year Chemistry Major must complete a minimum of **39 credit hours** consisting of:

Core Major Requirements:		Cr. Hrs.	21
18:160	General Chemistry I	3	
18:170	General Chemistry II	3	
18:261	Organic Chemistry I: Structure and Mechanisms	3	
18:260	Classical Physical Chemistry: Thermodynamics	3	
18:262	Introductory Analytical Chemistry	3	
18:274	Inorganic Chemistry I: Principles of Inorganic Chemistry	3	
18:363	Introductory Biochemistry	3	
Additional Major Requirement:			12
Choose:	18 credit hours of additional Chemistry courses at the 200/300/400 level		
Must achieve 2.00 GPA for Major requirement		Major Total:	39
Ancillary Course Requirements:			9
62:181 MATH	Calculus I	3	
62:191 MATH	Calculus II	3	
15:162	Cells, Genetics and Evolution	3	
Additional Degree Requirements:			
Plus: *	Minor Requirement	Must achieve 2.00 GPA for Minor requirement	Min. 18
Plus:	Liberal Education Requirement (see section 5.4)		
Plus:	Indigenous Content Course Requirement (see section 3.11)		
Plus:	Additional elective credit hours		
Must achieve 2.00 GPA for Graduation requirement		Degree Total:	90

* See appropriate Minor requirements for credit hour requirement.

Notes: May only count 6 credit hours of 090/091 courses.

Residence and other degree requirements listed in section [5.13](#).

MINOR

Students considering a Minor in Chemistry must complete a minimum of **18 credit hours** consisting of:

Core Minor Requirements:		Cr. Hrs.	6
18:160	General Chemistry I	3	
18:170	General Chemistry II	3	
Additional Minor Requirement:			12
Plus:	12 credit hours of additional Chemistry courses above the 100 level , (excluding 18:399)		
Must achieve 2.00 GPA for Minor requirement		Minor Total:	18



SUBJECT TO APPROVAL

MOTION NO. 187.MAY26

AGENDA ITEM NO. 6.4.3.2.8

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Science

SUBJECT: Geology Policy Revisions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves following policy revision, as submitted by the Department of Geology, Faculty of Science:

- Articulation Agreement UCN-BU

BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:



Articulation agreement

This articulation agreement is a formal agreement between the University College of the North and Brandon University, and describes the terms and conditions for recognizing the learning that is done at the former institution and applying it to the latter institution in the form of transfer credit. The University College of the North (UCN) is the *sending institution*, and Brandon University (BU) is the *receiving institution*.

1. Name of the institutions

University College of the North – sending institution

Brandon University – receiving institution

2. Program name at Brandon University

Bachelor of Science with a major in Geology

3. Name and contact of the University College of the North person who is overseeing the creation of this agreement

Jamie Grant

Associate Vice President, Community and Industry Solutions (jgrant@ucn.ca; 204 687 7038)

Signature and date:


Jamie Grant (Jan 8, 2026 13:50:51 CST)

01/08/2026

4. Name and contact of the person responsible at Brandon University

Dr. Christophe LeMoine

Dean of Science (LeMoineC@BrandonU.CA; 204 727 9624)

Signature and date:



01/15/2026

5. Expected number of students who will be considered for intake into the program each year:

Expected number: 2

Maximum number: 5

6. Terms of this articulation

6.1 The purpose of this agreement is for UCN students who have successfully completed the Geology Exploration Technician Program to obtain a block of 12 credits towards the Bachelor of Science with a major in Geology, as specified below (section 6.3).

6.2 The Geology Exploration Technician Program is a 10-month certificate program planned to be offered at the Northern Manitoba Mining Academy (NMMA, a division of the UCN). The outline of the program is provided in Appendix A.

6.3 The BU credits that will be obtained by students that have successfully completed the Geology Exploration Technician Program are the following:

- 42:160 Physical Geology
- 42:333 Field Geology
- One unallocated 3-credit first-year course in Geology (42:XXX)
- One unallocated 3-credit first-year course in Science.

6.4 Should a student change their major and/or degree, the 12 credit hours transferred may apply as electives within the student's new program, in accordance with the curricular provisions of the student's degree.

6.5 To obtain these BU credits, the students must have successfully completed the entirety of the Geology Exploration Technician Program offered by the Northern Manitoba Mining Academy, and obtained the corresponding certificate.

6.6 This agreement is subject to all regulations and policies of Brandon University. Brandon University's Admissions Office has the final right of approval or admission decisions for all students.

6.7 This agreement is applicable only to UCN students who have successfully completed the Geology Exploration Technician Program.

6.8 This agreement has no specified end date, but either party may terminate it at any time, provided 6 months written notice.

6.9 This agreement will be reviewed after five years.

7. Signatures

This agreement must be approved by the governing bodies of the two institutions, and then signed by the persons with institutional authority, as specified below

Doug Lauvstad

President & Vice-Chancellor

University College of the North

Signature:

Date:

Kofi Campbell

Provost and Vice-President (Academic)

Brandon University

Signature:

Date:

Amendment

The Brandon University Geology department discussed this draft agreement on January 27 2026. The department members felt that the Field Geology course, listed in section 6.3, was inappropriate, as it is a third-year course and requires a solid geological background, reflected by the prerequisites it has. It was suggested that it be replaced by one unallocated 3-credit first-year course in Science. With that amendment, the articulation agreement was approved by the Geology Department.

As of now, and during this approval process, Section 6.3 should read as follows:

“6.3 The BU credits that will be obtained by students that have successfully completed the Geology Exploration Technician Program are the following:

- **42:160 Physical Geology**
- **One unallocated 3-credit first-year course in Geology (42:XXX)**
- **Two unallocated 3-credit first-year courses in Science.”**

P. Alexandre

Chair, Geology Department

Geology Exploration Technician Program

Program Outline

Duration: 10 months

Delivery mode: In person

Course organization: Modular: individual modules follow each other rather than run concurrently. Each module is developed and delivered by its instructor.

Timing or modules: Weather dependent: courses with large out-of-doors component to be scheduled in the warmer months

Location: Predominantly at the Northern Manitoba Mining Academy premises in Flin Flon, and other nearby locations as needed.

Focus: Basic theory, practical knowledge, hands-on experience

Aim: At minimum, ensure that graduates have a strong chance of being hired by exploration companies; at maximum, graduates can transfer to Brandon University for further education

Deliverable: Certificate of completion of the course

Target audience: Any person who wishes to work in the exploration and resources industry

Prerequisite: None

Desired outcome: Solid basic knowledge and practical experience of exploration activities

Number of students: minimum of 5, maximum of 12 (for logistical reasons with the hands-on activities)

Assessment: Students are assessed by the instructor of each module. To obtain the certificate, students must pass each course.

List of modules

Module	Contents	Delivery mode	Duration
Introduction to Geology and Mining ¹	Basic principles of geology and mining	mostly lecture-based, with some hands-on activities	6 weeks
Exploration Activities ²	Basic principles, prospecting, geochemical and geophysical exploration	a combination of lectures and hands-on activities	6 weeks
Drilling and Coring ³	Drilling techniques, core collection and handling, core logging, core preparation and care	mostly hands-on work	3 weeks
Health and Safety ⁴	Six sub-modules: Basic First Aid, Advanced First Aid, Wilderness First Aid and Survival, Mine Safety, Fall Arrest, Confined Space Entry	a combination of lectures and hands-on activities	4 weeks
Environmental Implications of Exploration and Mining ⁵	Basic principles of environmental best practices	mostly lectures	1 week
Chainsaw Operation and Linecutting ⁴	Operating a chain saw, chainsaw safety, practice of linecutting	mostly hands-on activities	1 week
Small Motor, ATV, and Boat Operation ⁴	Operation, maintenance, and safety	mostly hands-on activities	1 week
Basics of Orientation and Navigation ⁶	Map reading, using compass, basics of GPS	a combination of lectures and hands-on activities	2 weeks
Geological Sampling ⁷	Sampling of soil, stream sediment, water, and vegetation; sample care, best practice	a combination of lectures and hands-on activities	3 weeks
Data and Project Management ⁴	Introduction to project and data management	mostly lectures	2 weeks
Refreshers ⁸	Computers and the internet, written communication including MS Word, mathematics including using MS Excel, etc., as needed	a combination of lectures and hands-on activities	4 weeks

It is anticipated that there will be between 25 and 35 contact hours per week for all the modules. The variation corresponds to the nature of some instruction and the need to travel for some activities.

Contents of the individual units

¹ Introduction to Geology and Mining

- Different rock types and their mineralogical composition
- Mineralogy and crystallography
- Structure, composition, and history of the Earth
- Plate tectonics
- Petrology: characteristics of different igneous rocks and processes leading to their formation
- Sedimentology and stratigraphy
- Metamorphic petrology
- Structural geology
- Geohazards (volcanoes, earthquakes, and landslides)
- Notions of geochemistry and geophysics
- Notions of paleontology
- Basics of economic geology
- Mining: types of mines, their structure and organization, transportation, ventilation, extraction processes and methods, safety, engineering
- **Labs:** Microscopy, examination of hand samples (in class), outcrop visits (in Flin Flon)

² Exploration Activities

- Description and characteristics of deposits and surface anomalies
- Surface media sampling
- Prospecting techniques
- Geochemical exploration
- Drilling in greenfield and brownfield exploration
- Data interpretation and target generation
- **Labs:** outcrop visits (in Flin Flon), collecting surface media

³ Drilling and Coring

- Different types of drilling
- Drilling methods and techniques
- Oriented cores
- Coring techniques
- Core description, logging
- Labelling, core storage and care
- Core splitting
- Data management
- Safety considerations
- **Labs:** work in a core storage facility, core logging, drill site visits

⁴ Modules corresponding to pre-existing NMMA courses

- All the modules that are based on existing NMMA courses will cover their respective topics as listed and with minimal alteration.

⁵ Environmental Implications of Exploration and Mining

- Climate change and pollution; the need to take care of the environment
- Environmental considerations of any industrial activity
- Specific environmental considerations of exploration and mining
- Critical minerals: the role of mining in future technologies
- Pollution detection and remediation
- *Societal impacts of exploration and mining*

⁶ Basics of Orientation and Navigation

- Mapping, map reading
- Orienteering using compass
- Navigation using compass and landmarks
- Notions of GPS
- Using GPS device for navigation and orienteering
- **Labs:** map reading, orienteering, using compass and GPS for navigation (in Flin Flon and its vicinity)

⁷ Geological Sampling

- The need and principles of geological sampling
- Notions of analytical techniques
- Sampling media and their characteristics
- Sample size as function of sampling purpose
- Taking geological samples; use of geological hammer
- Packaging and labelling of geological samples
- Keeping track of samples, data management
- Contamination prevention
- **Labs:** taking samples, packaging and labelling them, recording them in a database, keeping track of them, proper sampling techniques

⁸ Refreshers

- These will be tailored individually to students according to their needs. Students will work individually or in small groups, with a dedicated instructor.
- Teaching will involve lectures and individual assignments and projects, as needed and decided by the instructor.



SUBJECT TO APPROVAL

MOTION NO. 188.MAY26

AGENDA ITEM NO. 6.4.4.1.1

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Faculty of Education

SUBJECT: M.Ed Policy Revisions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves of the following policy revisions, as submitted by the Faculty of Education:

- Criminal Records Check and Child Abuse Registry Check Policy

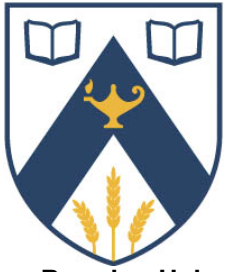
BACKGROUND/RATIONALE:

See attached.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:



Brandon University

Faculty of Education

Master of Education Program

Graduate Office:

204-727-7380 or

204 727-7406

Email:

facultyedgrad@brandonu.ca

Re: Criminal Records Check (CRC) with the Vulnerable Sector Check, and a Manitoba Child Abuse Registry Check (CARC) from any graduate student in the Faculty of Education doing a practicum or thesis that involves children or vulnerable populations

Submitted To: Graduate Studies Committee Submitted By:
Burcu Yaman Ntelioglou, M.Ed., Ph.D.
Chair of Graduate Programs in Education

Date: March 10, 2026

As previously approved by our G.E.C. (Graduate Education Committee), and E.F.C. (Education Faculty Council), the Faculty of Education requires a Criminal Records Check (CRC) with the Vulnerable Sector Check, and a Manitoba Child Abuse Registry Check (CARC) from any students doing a practicum or thesis that involves children or vulnerable populations, with the exception of when they are working in the context in which they have already provided those documents to their organization. Exemptions may be granted by departments on case-by-case basis.

This policy applies to all students in the Master of Education program. Students must complete a criminal records check and a child abuse registry check prior to the commencement of the practicum/thesis if their practicum or thesis involves working with children or vulnerable populations unless they are working in the context in which they have already provided those documents to their organization (such as their School Division, Westman Immigrant Services etc.)

Students will provide a local CRC and CARC, based on their current place of residence.

270-18th Street
Brandon, Manitoba
Canada R7A 6A9

www.brandonu.ca

This policy, if approved, will be implemented for the new students who will be admitted to the Master of Education program beginning with the Fall 2027 intake.


Please see attached for you to move forward to the Senate meeting package.

Thank you for your consideration.

Sincerely,



Burcu Yaman Ntelioglou, M.Ed., Ph.D.
Chair of Graduate Programs in Education
Associate Professor, Department of Curriculum and Pedagogy
Faculty of Education, Brandon University
270-18th Street
Brandon, MB, Canada R7A 6A9
nteliogloub@brandonu.ca

 BRANDON UNIVERSITY	Criminal Records Check and Child Abuse Registry Check Policy	Approved by: Graduate Education Committee and Education Faculty Council
Faculty of Education: Master of Education Administrative Policy	First Approved: January 29, 2026	Updated: February 17, 2026

1.0 Policy General Purpose

The Faculty of Education requires a Criminal Records Check (CRC) with the Vulnerable Sector Check, and a Manitoba Child Abuse Registry Check (CARC) from any students doing a practicum or thesis that involves children or vulnerable populations, with the exception of when they are working in the context in which they have already provided those documents to their organization. Exemptions may be granted by departments on case-by-case basis.

2.0 Definitions

For the purpose of this policy, unless otherwise stated, the following definitions shall apply:

Child Abuse Registry Check (CARC): The Registry contains names of persons who have been found to have abused a child. The purpose of the Child Abuse Registry is to help child and family services agencies protect children. Under certain circumstances, an employer or organization can access the Registry to determine whether persons who will have the care of children or have unsupervised access to children are listed on the Registry.

Criminal Records Check (CRC) with Vulnerable Sector Check: CRC with vulnerable sector verification is used to determine the possible existence of a criminal record and/or a sexual offence conviction.

3.0 Policy Guidelines

It is the responsibility of the student to ensure that all matters related to the criminal record check and child abuse registry check have been completed successfully. Failure to complete such checks at the appropriate time will result in the student being ineligible for the practicum or thesis.

The submitted criminal record check and child abuse registry check forms must be completed and submitted along with the thesis supervision request form or the practicum supervision request form prior to the scheduled commencement date of their practicum or thesis. Please note that original copies need to be submitted. We can only accept record checks that are dated six months from the date of issue. Records checks are considered valid by the Faculty of Education for two years, and therefore will need to be updated every two years.

If a student's criminal record check or child abuse registry check indicate that the student has a record, the Department Chair of the department/stream in which the student is enrolled, will require the student to proceed to have the specific charges determined and provide evidence of the disposition of the charges prior to their practicum/thesis commencement.

In the event that a student has a criminal record involving violence towards a person, drug trafficking, or similar charges, or appears on the child abuse registry, the information will be forwarded to the Professional Standards Committee, which in conjunction with the provincial Director of Professional Certification, will determine whether the student should be a candidate who would be approved to be able to work with children or vulnerable populations.

If a record exists which would disqualify a student from working with children or vulnerable populations, the student will be advised that no recommendation for a practicum/thesis will be issued until a pardon is granted by the federal government.

It is the student's responsibility to report immediately any charge(s) that may be incurred after the Criminal and Child Abuse Checks have been submitted to the Faculty of Education. Failure to report any change to the CRC/CARC status may result in expulsion from the program.

4.0 Scope of the Policy

Applies to all students in the Masters of Education program. Students must complete a criminal records check and a child abuse registry check prior to the commencement of the practicum/thesis. Students will provide a local CRC and CARC, based on their current place of residence.

5.0 Reference to Other Policies

Brandon University Faculty of Education policy in the Brandon University General Calendar under General Information states that "Satisfactory completion of a Criminal Records check and a Child abuse Registry check is required to gain entrance into all Education degree programs requiring placement in Manitoba Schools for Field Experience (student teaching)."

6.0 Approval Process

Faculty of Education

7.0 Appendices

N/A

Procedures

Inquiries may be directed to the Office of the Dean of Education at deanofed@brandonu.ca, (204) 727-9616; or to Graduate Studies in Education GradStudies@BrandonU.CA, (204) 727-

7406.



SUBJECT TO APPROVAL

MOTION NO. 189.MAY26

AGENDA ITEM NO. 6.4.4.2.1

MEETING: Senate Executive Committee

DATE: May-19-26

AGENDA: Closed Open

PROPOSED BY: Registrar's Office & Library

SUBJECT: Graduate Calendar Revisions

FOR: Approval Discussion Notice of Motion Information

RECOMMENDATION:

THAT the Senate approves of the following calendar revisions, as submitted by the Registrar's Office & Library:

- Mandatory Thesis Submission

BACKGROUND/RATIONALE:

Most graduate programs at Brandon University have long encouraged their graduate students to submit their theses to the Brandon University Library, as is required in the vast majority of graduate programs across Canada. This policy seeks to ensure that all graduate students are submitting their theses as one of the requirements of graduation, to ensure consistent capture, preservation, and access management.

PREPARED BY: Megan Wady
Administrative Assistant, Academic Governance

DECISION:
DATE: May 19, 2026

PER:

Update – Brandon University Graduate Calendar

General Regulations

3.XX THESIS PROGRAMS *(new section)*

3.XX.1 THESIS SUBMISSION *(new)*

As a condition of graduation, students registered in a thesis program must ensure that their thesis has been electronically submitted to the University Library prior to the grade submission deadline for the relevant graduation point. The Registrar's Office is notified electronically when a thesis is submitted.

Where a thesis may not be made publicly available in the institutional repository due to embargo or other publishing conditions, the thesis must still be submitted and will be held by the University Library until such time that the conditions are released.

3.XX.2 ANNUAL PROGRESS REPORTS *(moved from 3.10.2 with no edits)*

Submission of an annual progress report signed by the student, the thesis supervisor, and program Chair or supervisor, is mandatory for all students registered in a thesis, and continuation in the graduate program is contingent upon satisfactory progress reports. Individual graduate programs will complete annual progress reports on a schedule determined by the program, and progress reports will be maintained as part of the student's record.

Individual programs may impose additional progress report requirements, as outlined in the appropriate individual program section of this calendar.

Faculty of Education

5.2.7 THESIS REQUIREMENTS AND PROCEDURES *(edited)*

A student's thesis supervisor will normally be selected and approved by the student, by the Department and reported to the Graduate Education Committee. Before preparing their thesis proposals, students should consult the Thesis Protocol Guidelines prepared by the Graduate Studies program, Faculty of Education. [Refer to General Regulations for thesis submission.](#) Master of Education students in the research track are required to submit an electronic version of their thesis for inclusion in the online Canada Thesis Portal research repository.

School of Music

6.2.6 REGULATIONS FOR RECITALS, THESIS, RESEARCH PROJECTS, AND COMPREHENSIVE EXAMINATIONS *(edited)*

Detailed regulations are from the Graduate Music Department. Procedures for Graduate Recitals can be found online. [Refer to General Regulations for thesis submission.](#)

Faculty of Health Studies

7.7 THESIS REGULATIONS *(edited)*

Please refer to Thesis guidelines available online through the Master of Psychiatric Nursing website. [Refer to General Regulations for thesis submission.](#)

Commented [AM1]: I think that notification should shift from gradstudies@brandonu.ca to registrar@brandonu.ca for degree audit purposes. Now that we have an office of RGS, the general gradstudies email is monitored by Britney for Senate related items only (and we may be shifting that email over to RGS), so registrar@brandonu.ca will be the better destination for the auto-notifications.

Faculty of Arts

8.3.1 PROGRAM REGULATIONS *(edited)*

3. The thesis carries 12 credit hour weight. The topic for the thesis must be approved by an advisor and a small academic/professional committee, normally consisting of two other members. [Refer to General Regulations for thesis submission.](#)

Faculty of Science

9.2.1 PROGRAM REGULATIONS *(edited)*

2. All students must complete a thesis in the area of Environmental and/or Life Sciences. The thesis carries a 16 credit hour weight. The topic for the thesis must be approved by the student's supervisor and graduate advisory committee, and the MELS Steering Committee. [Refer to General Regulations for thesis submission.](#)

Report to Senate
Tosin Salau, BUSU President
May 2026

No written report submitted.

Report to Senate
Katheryne Lumgair, Board of Governors
May 2026

No written report submitted.

FACULTY OF ARTS

2025 YEAR-IN REVIEW



artscomms@brandonu.ca

<https://www.brandonu.ca/arts/>

Faculty of Arts at a glance
Current (full-time) Students:
829

3% increase from 2024

Credit Hours taught
19,833
Courses taught
304

More than 3/4 taught by regular faculty

Graduating Students (2024-2025)

183

Bachelor of Arts

98

5-Year Integrated Bachelor of Arts/Bachelor of Education

36

Bachelor of Business Administration

24

Master of Arts in Rural Development

23

Bachelor of Fine Arts

02
Research and Creation Contribution

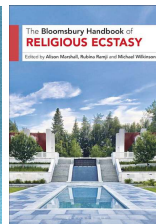
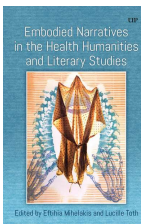
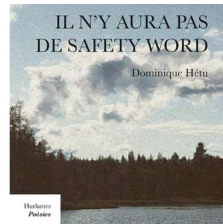
580,014 CAD

New External Grant Money obtained in 2025

36 Peer-reviewed Articles and Essays

27 Conference Papers

04 Major Art Exhibits

03 Edited Collection of Essays

01 Book of Poetry

Event Highlights


Faculty of Arts retreat with special guest Jessica Riddell (Bishop's University) was organized in August to discuss collective initiatives around creating community, improving student retention, and addressing the challenges posed by artificial intelligence

The Faculty of Arts Speaker Series continued its successful engagement in 2025, with several themes and speakers including:



- **Lisa-Jo K. van den Scott** from Memorial University gave a talk on their research called: "The Walls around Us: Theorizing Everyday Lives with Inuit in Nunavut"
- **Allison McCulloch** organized a panel on "Designing Inclusive Peace," which included visiting scholars from Japan and New Caledonia
- **Eftihia Mihelakis** launched her co-edited collection of essays, Embodied Narratives in the Health Humanities and Literary Studies (University of Toronto Press, 2025) in conversation with Candice Waddell-Henowitch

A special event celebrating **la Journée de la francophonie** brought together francophone colleagues, students, and supporting organizations from across Manitoba on March 20th



Stacey Koosel organized an Indigenous Art Speaker series during the Fall 2025 semester featuring prominent leaders such as K. C. Adams, Niigaan Sinclair, and BU's own Kevin McKenzie



The **Department of Business Administration** organized a luncheon and workshop with BU alumni in the business community to discuss employment opportunities and needs for future graduates. The results are inspiring future course and program development

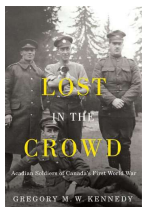
Department of Business Administration, five graduating students competed in the **2025 Systems Innovation Challenge in Toronto, Ontario** in January 2025.

- The BU team was one of 12 finalists out of 66 teams that competed from 20 institutions to be awarded a spot in this competition.



Teach-In on Equity, Diversity, Inclusion, Decolonization, and Reconciliation on March 31st, bringing together faculty, staff, students, and administrators.

- This followed a public statement by BU and the BU Faculty Association to reaffirm our commitment to EDIDR.


Prizes and Recognition


Gregory Kennedy's monograph, *Lost in the Crowd: Acadian Soldiers of Canada's First World War* (McGill-Queen's University Press, 2024) received several awards including the C. P. Stacey Award for Canadian Military History and le Grand Prix de l'Institut d'histoire de l'Amérique française.



Deanna Smid earned the Boydell & Brewer Humanities Prize for the best conference presentation from the Canadian Society for Renaissance Studies. Her paper was entitled: "Honeybees and the Little Ice Age in the Poetry of Henry Vaughan."



Leon Laidlaw earned the Feminist Legal Studies Editors' Article Award for their published article: "Prison Abolition for Collective Freedom: Facilitating Co-Resistance to Binary Prisons."



Rhonda Hinthner received

- Canadian Historical Association Teaching Award
- Ace Burpee's Top 100 Most Fascinating Manitobans List.

Report to Senate
Alysha Farrell, Dean of Education
May 2026

No written report submitted.

Report to Senate
Linda Ross, Acting Dean of Health Studies
May 2026

No written report submitted.

Report to Senate

Leanne Zacharias, Associate Professor of Music, Acting Dean of Music

May 2026

School of Music Performance and Pedagogy Activities

-the return of internationally-renowned violinist James Ehnes to Brandon last week was a massive boost of pride and spirit for our music school, conservatory and community. The City of Brandon unveiled an honorary street name at the corner of Princess and 20th, the WMCA hosted a celebratory reception, James delivered a masterclass for students, and his recital was an emotional and brilliant homecoming. Our concert hall was filled to capacity (yes, I checked the fire code in advance) and the reception afterward raised over \$6000 toward our Ehnes Scholarships in Trumpet and Violin. The Food Services team (Chef and Tracy Kowalchuk) did a superb job with this reception.

-we will host a second annual 5-day Vocal Institute next month, organized by Prof. Sarah Hall with guests vocal educators from around the region.

-the annual E-Gré Competition took place mid-April, with another full weekend of top young Canadian performers competing for prizes. BU Composition professor Jason Young wrote the featured new work for this year's competition, which each finalist performed as part of their recital.

Recruitment & Retention Initiatives

-School of Music string professors (Kerry DuWors and myself) hosted a 2-day event for current and alumni violinists, violists and cellists. Two guest educators included Robert Richardson Jr., presenting a lecture on community-based studio teaching, and cellist Yuri Hooker presenting a performance masterclass. Other sessions included Performance Psychology Strategies, a technique roundtable and chamber music sight-reading.

-the Recruitment and Retention Committee successfully executed another *Centre Stage* on-campus event for prospective students, hosting 44 high school students for coachings, ensemble playing and info sessions about our program. Music faculty, CAS instructors and our office team all contributed to this 'big lift' cohort-building initiative which began as a response to COVID's restrictions on ensemble playing in high schools.

Facilities

Contract workers are in the QEII building until September, completing a large-scale overhaul of our building's smoke alarm fire panel. Many of our activities have been moved elsewhere to accommodate their work and the noise of drilling

Report to Senate

Dr. Chris LeMoine, Dean of Science

May 2026

Events

- The Western Manitoba Science Fair (WMSF) was another resounding success this year, with several hundreds student participants. The Dean is grateful to all the students and faculty members that participated as volunteers for this great outreach event. In addition, the Science tours were once again a great opportunity for over 100 young scientists to learn more about Science at BU. Many thanks to all that made these tours possible including E. Yasui (ADES), B. Hill and S. Pal (Chemistry), S. Sun and A. Baig (Geology), A. Al-Abdallah and R. Nekvi (Math and Comp Sci.), T. Foster and A. Rogers (Physics and Astronomy).
- Another outstanding year Let's Talk Science in 2025-26. The co-coordinators (K. Giesbrecht and E. Tesarski) recruited 36 volunteers to participate in over 40 separate events and visits, reaching more than 800 students from grade 1-12! This included classroom visits and lab activities both in and out of Brandon, hosting Science Olympics at the Western Manitoba Science Fair, and co-hosting Chem Week for over 100 students grades 5-12 from Wawanesa, Rivers, Souris, and Dauphin.

Faculty and Students News

- S. Pal was selected to attend the [Invention to Innovation Program](#)
- A. Cushon won best presentation at Canadian Geophysical Union Student Conference
- J. Mateer appeared in the news [here](#) and [here](#) for contributing to discussions on AI alongside other BU faculty including G. Srivastava as part of the [Mayor's Book Club April 23rd](#).
- Congratulations for a successful [Waves of Hope paddles event](#) supporting M. Majumder's work in the Breast Cancer lab at BU.
- The 2nd year MELS students gave a great series of presentations on April 13th.
- Congratulations to recent BU graduate B. Gatien (B.Sc. Biology) for receiving the Young Woman of Distinction Award for women between the ages of 18 and 30.

Report to Senate
Katie Whelpton, Dean of Students
May 2026

Strategic Priority: Student Engagement

The Exam Prep Pop-Up workshops (Winter 2026) were developed to provide timely, accessible academic support by bringing services directly into high-traffic areas across campus. Grounded in a “Be Where the Students Are” approach, these sessions increased visibility while creating informal opportunities for students to engage in conversations about exam preparation. In collaboration with Student Accessibility Services, the pop-ups offered targeted, practical resources—including an exam planning tool, a structured 5-day study cycle, and active study strategies—to help students build personalized and effective study plans, with options for immediate use or continued support through follow-up appointments. Many students were unaware of the services, but these brief interactions frequently led to one-on-one bookings, often with peers, demonstrating the success of the pop-ups.

We have the following students at Brandon University participating in an outbound exchange through National Student Exchange (NSE) for next year:

1. Danil Buzhor on the CUAET visa (A Ukrainian student who has since received his PR) proficient in French and attending the University of Sherbrooke for Fall 2026
2. Trinity Rouire - Sociology student spending the Winter term at the University of Netherlands (through Southern Utah University)

We will have one incoming student for the NSE – Winter 2027.

Strategic Priority: Student Vibrancy

Student Services has begun a new partnership with Helping Hands. Every two weeks during the academic year (and monthly during the spring/summer), the organization will be donating food that is past best before date but prior to expiry and/or any access food that they believe would be beneficial to students.

BU has provided names of interested students in the business program who have agreed to help them write grant proposals.

Report to Senate

Melanie Sucha, Chief Information Officer

May 2026

No written report submitted.

Report to Senate
Andrea McDaniel, University Registrar
May 2026

Enrolment Update

For the 2026-27 admission cycle (Fall 2026 and Winter 2027 entry), the May 1, 2026 admission report shows that applications received are up 20% over the same point last year (though the total number is still the second lowest of the last five years). Applications from prospective Indigenous students are down 1% over the same point last year and applications from prospective international students are up 67% over the same point last year. With increased interest from international students this cycle, we are continuing to monitor Provincial Attestation Letter (PAL) use relative to the allocation received from the provincial government closely as we move through “peak” admission season for next fall.

Fall 2026 and Winter 2027 registration opened for returning students on April 28 and for new students on May 5, 2026. Significant technical difficulties occurred with the opening of returning student registration, as communicated to the BU community via email, the experience and resolution of which created challenges for many students. The Registrar’s Office and IT Services have reviewed what occurred and have been discussing options to ensure as smooth a registration experience as possible for next year.

Convocation

This year’s Convocation ceremonies, to be held Thursday, May 28 (Science and Music (morning); Education (afternoon)) and Friday, May 29 (Health Studies (morning); Arts (afternoon)), are approaching quickly. Many staff and faculty have volunteered to work with the Convocation Planning Team in facilitating these exciting, busy, and joyful days; their willingness to participate is essential and most appreciated!

Senate Office Staffing

The Administrative Assistant, Academic Governance position is vacant as of May 15, 2026. Significant thanks to Megan Wady for her excellent stewardship of academic governance administration this past academic year. The position has been posted with an anticipated start date of June 22. As always, we will attempt to maintain a clean academic governance flow, but we are grateful for the community’s patience with any service delays/irregularities during the interim period.

Report to Senate

Chris Lagimodiere, Associate Vice-President (Indigenous Initiatives)

May 2026

No written report submitted.

Report to Senate

Peter Hickey, Vice-President (Administration & Finance)

May 2026

No written report submitted.

Report to Senate

Bernadette Ardelli, Vice-President (Research & Graduate Studies)

May 2026

No written report submitted.

Report to Senate
Greg Gatien, Acting Provost & Vice-President (Academic)
May 2026

No written report submitted.

Report to Senate
Christine Bovis-Crossen, President
May 2026

No written report submitted.
