COUNCIL OF THE FACULTY OF SCIENCE

NOTICE OF MEETING

September 9, 2025

3pm – 4:30pm

via Zoom

AGENDA

1. Call to Order and Approval of Agenda
2. Chair's Remarks
3. Approval of May 13, 2025 Minutes
4. Business Arising
5. Inquiries and Communications
   > Senate Synopsis May 22 2025 & June 26 2025
   > Pass/Fail and Credit/No-Credit Grades (Policy)
   > **Joint Sub-committee on Quality Assurance Report**
6. Dean's Remarks
7. Associate Dean and Head of Bethune College Remarks
8. Reports from Science Representatives on Senate Committees
9. Science Student Caucus Items
10. Reports from Standing Committees of Council
11. **a) Executive Committee**
    > Ratification and Call for Nominations for Senate and Standing Committee of Council
    > Vacancies report on the Standing Committees of FSc Council

    b) Academic Policy and Planning Committee
    > Annual Report

    c) Appeals Committee:
    > Annual Report

    d) Committee on Equity, Diversity and Inclusion:
    > Annual Report

    e) Committee on Examinations and Academic Standards:
    > Annual Report

    f) Graduate Curriculum Committee:
    > Annual Report

    g) Petitions Committee:
    > Annual Report

    h) Committee on Teaching & Learning:
    > Annual Report

i) Research and Awards Committee:

> Annual Report

j) Senate T & P Review Committee:

> Annual Report

k) Undergraduate Curriculum Committee:

> Annual Report

> Consent agenda items: May 21 & August19

12. Other Business

a) Feedback and Concerns on the School of Medicine – President Rhonda Lenton & David Peters – Dean, Faculty of Health

COUNCIL OF THE FACULTY OF SCIENCE

MINUTES

May 13, 2025

3pm – 4:30pm

via Zoom

MINUTES

1. **Call to Order and Approval of Agenda**
   Chair of Council, M. Yousaf called the meeting to order and a motion was moved, seconded and carried to approve the agenda.
2. **Chair's Remarks**
   Chair of Council, M. Yousaf welcomed Council but had no remarks.
3. **Approval of April 8 2025 Minutes**
   A motion was moved, seconded and carried to approve the Minutes.
4. **Business Arising**
   There was none.
5. **Inquiries and Communications**
   > Senate Synopsis April 24
6. **Dean's Remarks**
   Dean Wang welcomed council and gave updates:

   Faculties of the Future:
   He thanked Rene Fournier and Ryan Schott and APPC for submitting our proposal to Lisa Philipps. He noted that a final report will be provided in June by Lisa Philipps.

   Lassonde School of Engineering and Faculty of Science:
   There has been a proposal to merge the Lassonde School of Engineering and Faculty of Science. A special meeting will take place at the end of May to discuss this proposal.

   Budget:
   A shift from a 3-year to a 5-year budget cycle has been approved. The 2025-26 and 2026-28 rolling budgets submitted to Provost are still pending approval. Weekly budget meetings continue and the he will provide an update in June.

   Thank You:
   He expressed gratitude to Council Chair M. Yousaf for his leadership, warmly welcomed Robert Tsushima as the new Interim Dean of the Faculty of Science, and thanked the entire Faculty of Science community for their ongoing dedication

7. **Associate Dean and Head of Bethune College Remarks**

a) G. Audette:

He extended his best wishes for a wonderful summer to the Faculty of Science.

b) Associate Dean, Research & Partnerships

V. Saridakis:

She reminded faculty to submit their Letters of Intent (LOI) through the NSERC Portal by August 1, 2025.

c) Associate Dean, Students

M. Scheid:

He gave a presentation on current Domestic and International enrollment numbers and highlighted current conversion activities.

8. **Reports from Science Representatives on Senate Committees**

There was none.

9. **Science Student Caucus Items**

Taline Apelian-Sutor informed the committee that the SSC elections have taken place and 20 students have been elected.

10. **Reports from Standing Committees of Council**

a) Executive Committee:

> Vacancies report on the Standing Committees of FSc Council

M. Yousaf noted the vacancies that remain.

b) Academic Policy and Planning Committee:

> Report on Faculties of the Future

Rene Fournier and Ryan Schott summarized the survey and results sent to the Faculty of Science.

> Motion to affirm APPC memo that FSc stand as an independent Faculty

Faculty of Science voted in favour that FSc stand as an independent Faculty.

A letter will be drafted and sent to Lisa Philipps re: survey findings and motion.

c) Undergraduate Curriculum Committee:

> Consent agenda items

> 2023-2024 Anomalous Grade Report

d) Graduate Education Committee:

> Consent agenda items

11. **Other Business**

a) Reputation Survey: 2026 Maclean's University Ranking - Holly Shulman, Senior Institutional Analyst, Research and Special Projects

Holly gave a presentation on the Reputation Survey and council was welcomed to ask questions and provide feedback.

Meeting Adjournment

A motion was moved, seconded and carried to adjourn the meeting.

FACULTY COUNCIL ATTENDANCE

MAY 13, 2025

Acacia	Rose
Aleksandra	Wiscicka
Alex	Mills
Allysa	Lumley
Andrew	McEachern
Aysa	Tajeri
Brad	Sheeller
Buks	van Rensburg
Carl	Wolfe
Coral	Hillel
dasantila	golemi-kotra
Delwar	Hossain
Derek	Jackson
Elaina	Hyde
Eva	Hughes
Gaelle	Luabeya
Georges	Monette
Gerald	Audette
Gino	Lavoie
Gloria	Orchard
Holly	Shulman
Hugo	Chen
Jade	Atallah
James	Elwick
Jennifer	van Wijngaarden
Jerusha	Lederman
Jill	Lazenby
Joanne	Sequeira
Joy	Aina
Khansa	Cheema
Maggie	Xu
Mario	Verrilli
Mark	Bayfield
Melissa	Hughes
Michael	Haslam
Mike	Scheid
muhammad	yousaf
Neal	Madras
Nicole	Nivillac
Ozzy	Mermut
Patricia	Lakin-Thomas
Patrick	Ingram
Paul	Szeptycki
Paula	Wilson
Rene	Fournier
Robert	Tsushima
Robin	Metcalfe
Rui	Wang
Ryan	Schott
Sibonile	Siyakatshana
Sihat	Salam
Sophia	Luzskov
Stanislaw	Jerzak
Stephanie	Jones
Steven	Chen
Stuart	Macgregor
Taline	Apelian-Sutor
Tiffany	Guan
Tihana	Mirkovic
Tom	Kirchner
Vivian	Saridakis
Wendy	Booth
Yuna	Hwang
Zehrah	Mirza

The Senate of York University

Meeting Synopsis

The 718th Meeting of Senate held on Thursday, 22 May 2025

Remarks

President

President Lenton reported on the University's strategic planning framework and adjustments in response to the external context; provided an update on the provincial budget announcement and related impact on the University; and, outlined the decline in domestic enrolment and impact on metrics under the provincial Financial Accountability Framework.

Approvals

On the recommendation of Senate Executive Committee, Senate approved a slate of candidates for election to Senate committees and Senate-elected positions.

On a recommendation from the Academic Policy, Planning and Research Committee, Senate approved the establishment of the School of Medicine as a new academic unit in the Faculty of Health effective 1 July 2025, and recommended it for approval by the Board of Governors.

Committee Information Items

Executive Committee

Information items included the following:

- An update on the Committee's review of the Annual Senate and Committee Surveys in preparation for this year's survey exercise.

Academic Policy, Planning and Research Committee

Information items included the following:

- Review of the Policy Framework for Temporary Suspension of Admissions to Programs at York University.
- Discussion of the Task Force on the Future of Pedagogy Report with the Chair of the Academic Standards, Curriculum & Pedagogy Committee and the Vice-Provost Teaching & Learning.
- Consultation on proposed directions for the Senate Undergraduate Degree Framework with the Vice-Provost Teaching & Learning and Chair of the Academic Standards, Curriculum & Pedagogy Committee.

The Senate of York University Synopsis

- Response to a question at Senate on University resourcing of research matching grants.

Academic Standards, Curriculum and Pedagogy Committee

Information items included the following:

- Minor curricular modifications to undergraduate and graduate programs.

Academic Policy, Planning and Research Committee (APPRC) & Academic Standards, Curriculum and Pedagogy Committee (ASCP)

Senate received the April 2025 Report of the Joint Sub-Committee on Quality Assurance.

Additional Information about this Meeting

Please refer to the full Senate agenda of **22 May 2025** for details about the items reported.

The next regular meeting of Senate will be held at **3:00 pm on Thursday, 26 June 2025.**

The Senate of York University

Meeting Synopsis

The 719th Meeting of Senate held on Thursday, 26 June 2025

Remarks

President

President Lenton delivered a year-end update highlighting York's achievements in rankings, research, and student success. She provided status reports on government policy the York U Forward Action Plan, the implementation status of the Auditor General's recommendations, York's strong performance under SMA3, and preparations for SMA4. Updates were also provided on the launch of YU Automated University Response Assistant (AURA), , the development of the School of Medicine, and strategic initiatives to advance global engagement, sustainability, and student wellbeing. A full 2024-2025 year-end report will be issued in September.

Inquiries & Communications

A report from the Academic Colleague to the Council of Ontario Universities (COU) was received for information.

Approvals

On the recommendation of the Senate Executive Committee, Senate approved:

- Election of members to non-designated Senate Committees and positions.
- Establishment of the Senate Policy on the Review of Honorary Degrees, effective 1 July 2025.

On the recommendation of the Senate Awards Committee, Senate approved:

- As amended in the meeting, revisions to the Senate Policy on Honorific Professorships, effective 1 September 2025.

On the recommendation of the Academic Policy, Planning and Research Committee, Senate approved:

- Chartering of the following Organized Research Units (ORU) for a five-year period, commencing 1 July 2025:
    - Centre for Research on Latin America and the Caribbean
    - Centre for Bee Ecology, Evolution and Conservation
    - CITY Institute

- York Centre for Asian Research
- Centre for Research on Biomolecular Interactions

On the recommendation of the Academic Policy, Planning and Research Committee, Senate endorsed:

- The President's Policy Framework for Temporary Suspension of Admissions to Programs at York University

On the recommendation of the Senate Academic Standards, Curriculum and Pedagogy Committee, Senate approved:

- Closure of the Graduate Diploma (Type 2) in Nonprofit Management & Leadership, housed in the Schulich School of Business.
- Revisions to the effective date of the Senate approved (June 2024) Pass/Fail and Credit/No-Credit Policy from 1 September 2025 to 1 September 2026.

Reports

Under the auspices of the Academic Policy, Planning and Research Committee, Interim Provost and Vice-President Academic David Peters and Vice-President Finance & Administration Narin Kishinchandani delivered a presentation on multi-year operating budget plan in the context of academic planning which included a focus on Fall 2025 enrolments and strategic enrolment planning. . The presentation is accessible from the Senate Meeting website.

Committee Information Items

Executive Committee

Information items included the following:

- Election results for seats on the new APPRC Advisory Sub-committee on Academic Resource Allocations, and for the position of Senator on the Board of Governors.
- Call for expressions of interest to fill remaining vacancies on the Appeals Committee.
- Update on a preliminary discussion of the Joint Board-Senate Working Group on Principles Governing a Presidential Search, and that a discussion at Senate is planned for the September Senate meeting.
- Committee approval of the appointment of Ryan Whiston to the Senate Executive Committee as the graduate student nominee.
- The Committee's review and approval of revisions to the Rules and Procedures for the Faculty Council of LAPS.
- Receipt of recommendations to add four candidates and renew three others to the pool of prospective honorary degree recipients.

The Senate of York University Synopsis

- a reminder to Senators to complete the 2024-2025 Senator and Senate Committee Survey in progress, the results of which will be reviewed by the Executive Committee in September and reported on in an upcoming Senate meeting.
- The planned mode of Senate Meetings for 2025-2026, which will continue to alternate in-person and virtual meeting modes.
- A report on Senate attendance for 2024-2025 to date, which indicates attendance that exceeded the previous year.
- Progress made by Senate Committees on defined actions in 2024-2025 in support of the UAP, with special acknowledgment of the work of APPRC this year.
- its assumption of summer authority between the June and September meetings of Senate, in accordance with the Senate Rules
- Communications received by the Executive Committee:
    - Regarding composition of the Awards Committee, noting that committee membership would be reviewed in conjunction with the three-year review of the Rules of Senate in 2025-26.
    - conveying a motion passed by the Faculty of Education Faculty Council regarding a request that the SHARP budget model be reviewed in the context of equitable and fair Faculty resourcing

Academic Policy, Planning and Research Committee

Information items included the following:

- An update on the “Faculties of the Future” initiative, noting key reflections by the Committee members and that APPRC plans for a facilitated discussion of the Final Report with Senate when it reconvenes in September.
- Progress towards 2024-2025 priorities.
- report of its Sub-committee on Organized Research Units
- its receipt of annual reports from Human Participants Review Committee (HPRC), Animal Care Committee and the York University BioSafety Committee.

Awards Committee

The Chair presented the 2025 recipients of the President’s Research and Teaching Awards and Honorific Professorships, and outlined recent clarifications to award criteria.

Academic Standards, Curriculum and Pedagogy Committee

Information items included:

- A year-end status report on its 2024-2025 priorities and its planned take up next year the topic artificial intelligence (AI) and its resulting impact on teaching and learning.

- Minor modifications to degree requirements and minor edits in programs housed in the Faculties of AMPD, EUC, FGS, Osgoode, Schulich, and Science, effective F26.

Additional Information about this Meeting

Please refer to the full Senate agenda of **26 June 2025** for further details on the items reported.

The next regular meeting of Senate will be held at **2:30 pm on Thursday, 25 September 2025.**

ASCP Appendix B

University Policy

Pass/Fail and Credit/No-Credit Grades (Policy)

Topic:	Academic Standards, Grades, Conduct of Examinations
Approval Authority:	Senate
Approval Date:	27 June 2024
Effective Date:	1 September 2025~~5~~6
Last Revised:	

1. Purpose

1.1 This Policy clarifies the difference between two distinct course grading types:

- Pass/Fail grading, and
- Credit/No-Credit grading

1.2 Pass/Fail grading option is intended to:

a. encourage undergraduate students to expand course choices in areas of interest without the concern of course results impacting their Grade Point Average.

1.3 Credit/No-Credit grading is:

a. used by Faculties or academic departments offering courses on an ungraded basis; such courses typically have defined credit values ranging from zero (0) credit to six (6) credits.

2. Scope and Application

2.1 This Policy applies to undergraduate students.

2.2 This Policy does not apply to:

a. students in the Bachelor of Education, Juris Doctor, or Schulich undergraduate degree programs;

b. courses that would disqualify students from obtaining an accreditation, or those courses which are required to reflect a grade for the purposes of program accreditation; and

c. courses offered at the graduate level.

3. Definitions

3.1 Applicable definitions are available in the Pan-university Academic Nomenclature.

4. Policy

4.1. Pass/Fail Grading Option

a. With the Pass/Fail grading option, course results are not included in the calculation of a student's Grade Point Average.

b. The Pass/Fail grading option allows students in undergraduate degree programs to elect receiving a pass/fail grade in eligible courses.

c. To elect Pass/Fail grading, the student must complete and submit the Pass/Fail request form, available on the Office of the University Registrar's website, before the last day to drop a course without receiving a grade.

d. Students complete course work and must achieve a passing grade, in accordance with the Common Grading Scheme for Undergraduate Faculties, in order to receive a "Pass" or "P" under this option.

e. The student's course result is adjusted to a "Pass" or "Fail" by the Registrar's Office, based on the final grade submitted by the instructor.

f. Students who elect to complete a course on a Pass/Fail basis may request to revert to taking the course on a graded basis up until the last date of classes corresponding to the term of the course.

4.1.1. Pass/Fail Grading Eligibility

a. Students may elect to take a maximum of twelve (12) credits under the Pass/Fail grading option, providing they are in good academic standing and have completed a minimum of twenty-four (24) credits.

b. Newly admitted students who have not yet completed twenty-four (24) credits may submit a request to take up to three (3) credits under the Pass/Fail grading option.

4.1.2. Exceptions to the Pass/Fail Grading Option

a. The following categories of courses are not eligible for the Pass/Fail grading option:

   i. degree program courses which satisfy major or minor requirements

   ii. degree program required courses that are outside the major

   iii. certificate program courses required to satisfy the Certificate requirement

   iv. degree program required 1000-level science courses in the Faculty of Science, the Faculty of Health, and the Lassonde School of Engineering

4.1.3. Transfer Credit Guidelines and the Pass/Fail Grade

a. Courses covered by the Transfer Credit Guidelines must comply with the Guidelines and, consequently, must be taken on a graded basis, except in cases where the host institution employs a pass/fail or other assessment scheme.

4.2. Credit/No-Credit Grading

a. The Credit/No-Credit grading is used by:

   i. Faculties or academic departments offering practicum courses required for degree program completion, where the practicum courses have zero credit value.

      - These practicum courses are not included in the total credit count required for the degree program, and course results are not included in the student's Grade Point Average;

   ii. Faculties or academic departments offering practicum courses required for degree program completion and accreditation by an external governing body, where the practicum courses have an assigned credit value.

      - These practicum courses are included in the total credit count required for the degree program;

   iii. Faculties or academic departments offering courses required for degree program completion, on an ungraded basis, where the courses have defined credit values and where:

      - Successful completion is recorded as CR on a student's transcript and the course result is not factored in the student's Grade Point Average; and

- Unsuccessful completion is recorded as an earned failing grade of 'F' and is factored into the student's Grade Point Average.

5. Roles and Responsibilities

5.1 Students are responsible for reviewing degree program requirements prior to submitting a request for the Pass/Fail option and for submitting their request to the Registrar's Office before the last day to drop a course without receiving a grade.

5.2 The Registrar's Office is responsible for publishing sessional dates, including the last date to drop a course without receiving a grade, and for making available to students, information and instructions on submitting a request for the Pass/Fail grading option. The Registrar's Office is also responsible for inputting "Pass" or "Fail" in the student's record based on the final grade submitted by the instructor.

5.3 Faculties, academic departments and course directors are responsible for designating an ungraded course as a Credit/No-Credit course, according to applicable Faculty rules.

6. Review

6.1 The Senate Academic Standards Curriculum and Pedagogy Committee is responsible for review of this policy at least every five years and for recommending approval to Senate if/as needed.

Legislative History:	Pass Fail Policy: Approved by Senate 1998. Amendments approved by Senate 17 February 2011; 27 June 2019; 26 September 2019 Credit/No-Credit Regulation: Approved by Senate 25 February 1998
Date of Next Review:	30 June 2029
Related Policies, Procedures and Guidelines:	Common Grading Scheme for Undergraduate Faculties Pan-university Academic Nomenclature Guidelines and Implementation Procedures for the Assessment of Transfer Credit

2025-2026 FSc Report on vacancies for Senate and FSc Standing Committees of Council

RATIFICATION OF NOMINATIONS

Senate:
R. Hili, Department of Chemistry, Member at Large, term 2025 – 2028
William van Wijngaarden, Department of Physics and Astronomy, Member at Large, term 2025 – 2028
E. Hamm, Member at Large, Department of Science, Technology & Society, term 2025 – 2028
A. Skelton, Designated

Academic Policy and Planning Committee:
W. van Wijngaarden, Department of Physics & Astronomy, term 2025 – 2026

Appeals Committee:
P. Scholz, Department of Physics & Astronomy, term 2025 – 2026

Committee on Equity, Diversity & Inclusion:
A. Kumarakrishnan, Department of Physics & Astronomy, term 2025 – 2026
J. Lazenby, Department of Science, Technology & Society, term 2025 – 2026
D. Monaldi, Department of Science, Technology & Society, term 2025 - 2028

Committee on Examinations and Academic Standards:
S. Tulin, Department of Physics & Astronomy, term 2025 – 2026
B. Howard, Department of Physics & Astronomy, term 2025 – 2026
C. Storry, Department of Physics & Astronomy, term 2025 – 2026
K. Birch, Department of Science, Technology & Society, term 2025 - 2028

Committee on Teaching & Learning:
N. Blinov, Department of Physics & Astronomy, term 2025 - 2026
C. Boukare, Department of Physics & Astronomy, term 2025 – 2026
D. Wilson, Department of Chemistry, term 2025 – 2028
L. Hiscock, Department of Chemistry, term 2025 - 2026

Executive Committee:
W. Taylor, Department of Physics & Astronomy, term 2025 – 2028
J. Webb, Department of Science, Technology & Society, term 2025 – 2028

Petitions Committee:
C. Jang, Department of Biology, term 2025 – 2025
S. Jerzak, Department of Physics & Astronomy, term 2025 – 2026
C. Douglas, Department of Science, Technology & Society, term 2025 – 2028
D. Jackson, Department of Chemistry, term 2025 – 2028
E. McFarlane, Department of Biology, term 2025 – 2028
H. Jankowski, Department of Mathematics & Statistics, term 2025 – 2028

Research & Awards Committee:
R. Kannan, Department of Physics & Astronomy, term 2025 – 2026
T. Baumgartner, Department of Chemistry, term 2025 - 2028

Tenure & Promotion Committee:
C. Bergevin, Department of Physics & Astronomy, term 2025 - 2026
M. George, Department of Physics & Astronomy, term 2025 - 2026
R. Lewis, Department of Physics & Astronomy, term 2025 – 2026
S. Domenikos, Department of Science, Technology & Society, term 2025 – 2028

Undergraduate Curriculum Committee:
R. Metcalfe, Department of Science, Technology & Society, term 2025 - W2027
O. Mermut, Department of Physics & Astronomy, term 2025 - 2025
P. Hall, Department of Physics & Astronomy, term 2025 – 2029
M. Haslam, Department of Mathematics & Statistics, term 2025 – 2026
J. Rogerson, Department of Science, Technology & Society, term 2025 – 2028

Undergraduate Student Nominations for 2025-2026 Faculty Council:

Valeriia Shvetsova

Taline Apelian-Sutor

Paniz Hosseinipour

Natalie Moussa

Sophia Luzskov

Madeline Blanco

Abisola Anifowose

Ruth Igumbor

Satyam Verma

Yuna (Aria) Hwang

Precious Fagbenro

Ayesha Tahir

Raghav Sharma

Racheal Ajadi

Parmida Khodrang

Raman Mir Eshghi

Fatima Alnaser

Seyedeh Lilia Modarresi Saryazdi

Nadia Fatima

Setareh Ghorbani Sini

Graduate Student Nominations for 2025-2026 Faculty Council:
Fatema Nakhuda
Sanaz Gholizadeh
Aysa Tajeri Emamchaei
Katherine Myers
Emily Anacleto
Elizaveta Yakubovskaya

2025-2026 FSc Report on vacancies for Senate and FSc Standing Committees

Committee	Rules of Faculty Council - membership	Meeting time / Membership	Term	
			From	To
Senate	According to the York University Secretariat based on the Senate Rules and Procedures governing the size and composition of Senate, the Faculty of Science shall have twelve members, including a minimum of two Chairs. According to The Rules of Council (Science), Faculty representation shall include the Director of Natural Science, three Department Chairs, and terms shall be for three years.	As per Senate website		
	Dean, Ex officio	R. Tsushima	Designated	
	Member at large	A. Skelton	Designated	
	Member at large	E. Hamm, Department of Science, Technology & Society	2024	2027
	Member at large	R. Hili, Department of Chemistry	2025	2028
	Member at large	T. Kelly, Department of Biology	2024	2027
	Member at large	W. van Wijngaarden, Department of Physics and Astronomy	2025	2028
	Member at large	T. Kubiseski, Department of Biology	2023	2026
	Member at large	VACANT	2025	2028
	Department Chair	T. Kirchner, Department of Science, Physics & Astronomy	2024	2027
	Department Chair	J. van Wijngaarden, Department of Chemistry	2024	2027
	Department Chair	M. Haslam, Department of Mathematics & Statistics	2023	2026
	Director of NATS	R. Metcalfe, Division of Natural Science	Designated	
	Student representative	Taline Apelian-Sutor	2025	2027
	Student representative	Raman Mir Eshghi	2025	2027
Faculty Council	Chair of Council	A. McEachern	2025	2026
	Vice-Chair of Council	V. Pavri	2025	2026
Staff Representatives		W. Booth	2025	2026
		D. Hossain	2025	2026
		M. Xu	2025	2026
FSc Reps on Senate Committees				
Senate Executive	1 member from FSc	T. Kelly	2024	2027
Academic Policy, Planning and Research Committee (APPRC)	1 member from FSc	G. Monette	2023	2026
ASCP (Academic Standards, Curriculum and Pedagogy Committee)	1 member from FSc	J. Elwick	2024	2027
Senate Tenure & Promotion	1 member from FSc	P. Wilson	2024	2027
Sub-Committee on Honorary Degrees & Ceremonials	1 member from FSc	VACANT	2025	2028
Executive Committee	The Executive Committee shall be chaired by the Chair of Council and include the Vice-Chair of Council, the Secretary of Council, and one member elected from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, and Science, Technology & Society/Natural Science, the Dean of the Faculty of Science (ex officio), one student member of Council, and one of the staff members elected to Council.	Executive Committee normally meets the first Tuesday of each month (September to May) from 3pm - 430pm		
	Chair of Council	A. McEachern	2025	2026
	Vice-Chair of Council	J. Webb	2025	2026
	Dean, Ex officio	R. Tsushima	Designated	
	Asst. Dean - SEM & SEP	E. Hughes	Designated	
	Staff representative	W. Booth	2025	2026
	Undergraduate Student Rep	Seyedeh Lilia Modarresi Saryazdi	2025	2026
	Biology	M. Vicari	2023	2026
	Chemistry	C. Caputo	2024	2027
	Math & Stats	VACANT	2025	2028
	Physics & Astronomy	W. Taylor	2025	2028
	Science, Technology & Society	V. Pavri	2025	2028
APPC	The Academic Policy and Planning Committee shall include the Dean or designate (*ex officio*), the Master of Norman Bethune College and one member elected from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, and Science, Technology & Society/Natural Science, one student member of Council, and one of the staff members elected to Council.	APPC will normally meet the last Thursday of each month (September to April) from 9:00 am - 10:30 am		
	Associate Dean, Faculty, (ex officio)	A. Skelton	Designated	
	Head of Bethune College	P. Wilson	Designated	
	Undergraduate Student Representative	Parmida Khodrang	2025	2026
	Elected staff representative	M. Xu	2025	2026
	Biology	R. Schott	2023	2026
	Chemistry	R. Fournier	2023	2026
	Math & Stats	P. Szeptycki	2023	2026
	Physics & Astronomy	W. van Wijngaarden	2025	2026
	Science, Technology & Society	VACANT	2025	2028
Undergraduate Curriculum Committee	The Curriculum Committee shall include the Dean and an Associate Dean (ex officio), the Chair or nominee from each teaching Division or Department, three members elected by Council and two student members of Council.	The Curriculum Committee will normally meet every last Tuesday of each month (September to April) from 9:00 - 10:30 am		
	Member at Large	VACANT	2025	2028
	Member at Large	Paula Wilson	2023	2026
	Dean, Ex officio	R. Tsushuima	Designated	
	Undergraduate Student Rep	S.Paniz Hosseinipour	2025	2026
	Undergraduate Student Rep	Racheal Ajadi	2025	2026
	Biology	J. Atallah	2023	2026
	Chemistry	VACANT	2025	2028
	Math & Stats	M.W. Wong	2023	2026
	Physics & Astronomy	O. Mermut (F) / P.Hall (W)	2025/2025	2025/2029
	Science, Technology & Society	R. Metcalfe,/ ALT. J. Rogerson	2025	2027
	Member at Large	L. Robertson	2023	2026

2025-2026 FSc Report on vacancies for Senate and FSc Standing Committees

Committee	Rules of Faculty Council - membership	Meeting time / Membership	Term	
			From	To
CEAS	The Committee on Examinations and Academic Standards shall consist of an Associate Dean (*ex officio*), five members elected by Council from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy and Science, Technology & Society/Natural Science, and one student member of Council.	CEAS will normally meet every alternate Thurs from 1:00 - 3:00 pm year round.		
	In addition to the above membership of the committee, Council shall elect an alternate member from each of the Departments specified above. The alternate member shall be the person polling the next highest number of votes to those elected to the committee from each Department. The alternate for the student member will be selected by the Science Student Caucus from one of its Members at Large. An alternate can only vote in the event that first elected members are not in attendance.			
	Associate Dean - Students, Ex officio	M. Scheid	Designated	
	Undergraduate Student Rep	Sophia Luzskov	2025	2026
	Undergraduate Student Rep	Madeline Blanco	2025	2026
	Biology	A. Hilliker, VACANT / ALT. VACANT	2023/2025	2026/2028
	Chemistry	P. Johnson & T.Zeng / ALT. VACANT	2023/2023	2026/2026
	Math & Stats	VACANT, VACANT / ALT. VACANT	2025/2025	2028/2028
	Physics & Astronomy	S. Tulin, B. Howard / ALT. C. Storry	2025/2025	2026/2026
	Science, Technology & Society	K. Birch / ALT. S. Domenikos	2025/2023	2028/2026
Petitions	The Petitions Committee for the purpose of hearing student petitions shall consist of an Associate Dean (*ex officio*), six members of Council, and two student members of Council. The Committee may divide the workload by splitting the Committee membership into two panels of four people each. A quorum shall consist of either (a) two faculty voting faculty members and one student member or (b) three voting faculty members.	Each panel meets once a month on Wednesday or Thursday from 2:30 pm - 4:00 pm		
	Associate Dean, Ex officio	M. Scheid	Designated	
	Undergraduate Student Rep	Nadia Fatima	2025	2026
	Undergraduate Student Rep	Precious Fagbenro	2025	2026
	Member at Large	E. McFarlane	2025	2028
	Biology	C. Jang	2025	2028
	Chemistry	D. Jackson	2025	2028
	Physics & Astronomy	S. Jerzak	2025	2026
	Math & Stats	H. Jankowski	2025	2028
	Science, Technology & Society	C. Douglas	2025	2028
	Member at Large	A. Mills	2023	2026
SRC T & P Committee	The Committee on Tenure and Promotions shall consist of one currently tenured member from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy and Science, Technology & Society/Natural Science elected by Council, and one student member of Council. No member of the Committee shall be a member of another Tenure and Promotions Committee at any time during their tenure on this committee.	SRC T & P Committee will normally meet the last Friday of each month (September to May) from 9:00 am - 11:00 am in LUM 305B		
	In addition to the above membership of the committee, Council shall elect an alternate member from each of the Units mandated above. The alternate member shall be the person polling the next highest number of votes to those elected to the committee from each Department. The alternate for the student member shall be selected by the Science Student Caucus from one of its Members-at-Large on an annual basis. An alternate can only vote in the event that existing members are not in attendance.			
	Associate Dean - Faculty, Ex officio	A. Skelton	Designated	
	Undergraduate Student	Valeriia Shvetsova	2025	2026
	Biology	M. Bayfield/ ALT. VACANT	2023/2025	2026/2028
	Chemistry	A. Orellana/ ALT. S. Krylov	2023/2024	2026/2027
	Physics & Astronomy	M. George (Fall), C. Bergevin (Winter) / ALT. R. Lewis	2025/2025	2026/2026
	Math & Stats	Y.Gao / ALT. VACANT	2024/2025	2027/2028
	Science, Technology & Society	S. Domenikos / ALT. D. Lungu	2025/2023	2028/2026
CoTL	Currently, the Committee on Teaching and Learning shall consist of a minimum of two Faculty members from each department, the Associate Dean – Students, one Librarian, one staff member, one undergraduate student, and two graduate students, in addition to other members invited as provided for by the Rules. Graduate students and staff nominees will indicate their interest in serving on the committee in writing to the committee, who will then approve by majority vote.	CoTL normally meets every third Thursday of each month (September to May) from 10:00 am - 11:30 am		
	Associate Dean - Students, Ex officio	M. Scheid	Designated	
	Graduate Student Representative	Fatema Nakhuda	2025	2026
	Graduate Student Representative	Sanaz Gholizadeh	2025	2026
	Undergraduate Student Representative	Setareh Ghorbani Sini	2025	2026
	Stacie Science Library	M. Wang	Designated	
	IT Representative	VACANT	Designated	
	Teaching Commons Rep	Y. Su	Designated	
	Staff representative, Elected	D. Hossain	2025	2026
	Biology	L. Adriana Puentes Jacome	2024	2027
	Biology	J. Atallah	2023	2026
	Chemistry	L. Hicsock	2025	2026
	Chemistry	D. Wilson	2025	2028
	Physics & Astronomy	N. Blinov	2025	2026
	Physics & Astronomy	C. Boukare	2025	2026
	Math & Stats	VACANT	2025	2028
	Math & Stats	VACANT	2025	2028
	Science, Technology & Society	C. Rozins	2024	2027
Committee on Research & Awards	The Committee on Research and Awards shall consist of one member elected by Council from each of Biology, Chemistry, Mathematics and Statistics, Science, Technology & Society/Natural Science, and Physics and Astronomy, one student member of Council and an Associate Dean (*ex officio*).	The Research & Awards Committee will meet when grants and awards need to be adjudicated.		
	Associate Dean - Research & Graduate Education, Ex officio	S. Moghadas	Designated	
	Undergraduate Student Representative	Ruth Igumbor	2025	2026
	Graduate Student	Aysa Tajeri Emamchaei	2025	2026
	Biology	D. Golemi-Kotra	2023	2026
	Chemistry	T. Baumgartner	2025	2028
	Physics & Astronomy	R. Kannan	2025	2026
	Math & Stats	H. Zhu	2023	2026
	Science, Technology & Society	H. Mialet	2023	2026
Appeals Committee	The Appeal Committee for the purpose of hearing student appeals shall consist of four elected faculty members from Science units, an Associate Dean (ex officio) and two student members of Council. A quorum shall consist of either (a) two faculty members and one student member or (b) three faculty members.	Meeting is held once a month and times are polled by the Committee Secretary.		
	Associate Dean - Faculty, Ex officio	A. Skelton	Designated	
	Undergraduate Student Representative	Ayesha Tahir	2025	2026
	Undergraduate Student Representative	Abisola Anifowose	2025	2026
	Member at Large	VACANT	2025	2028
	Biology	L. Donaldson	2023	2026
	Chemistry	L. Hiscock	2023	2026
	Physics & Astronomy	P. Sholz	2025	2026
	Math & Stats	M.W. Wong	2023	2026
	Science, Technology & Society	D. Monaldi	2023	2026

2025-2026 FSc Report on vacancies for Senate and FSc Standing Committees

Committee	Rules of Faculty Council - membership	Meeting time / Membership	Term	
			From	To
Graduate Curriculum Committee	To provide broad review and commendation to Council via the Academic Policy and Planning Committee of all proposals received from Graduate Programs with respect to: New Course Proposals , Course Change Proposals, Minor Changes to Program/Graduate Diploma Academic Requirements, Major Modifications to Program/Graduate Diploma Academic Requirements, New Graduate Fields, New Graduate Diplomas, New Graduate Degree Programs The Graduate Education Committee shall consist of: - Associate Dean – Research & Graduate Education (ex officio) - Graduate Program Director (or designate who must be a member of the graduate program) of each Graduate Program in the Faculty of Science -one graduate student member from any Graduate Program within the Faculty of Science -one full-time faculty member from the Faculty of Health or Lassonde School of Engineering who is appointed to teach in any FSc graduate program - A member at large with knowledge of graduate programming, and experience with curriculum approvals at the Faculty-level. The Chair of the Committee is selected by the voting members of the Committee for a one-year term.	Meeting is held based on availability.		
	Associate Dean – Associate Dean Students, Ex officio	M. Scheid	Designated	
	Biology	J. Paluzzi	2023	2026
	Chemistry	R. Hili	2023	2026
	Physics & Astronomy	A. Muzzin	2023	2026
	Math & Stats	P. Ingram	2023	2026
	Science, Technology & Society	VACANT		
	Member from Faculty of Health OR Lassonde	VACANT		
	Member at Large	D. Golemi-Kotra	2023	2026
	Graduate student	Elizaveta Yakubovskaya	2025	2026
Committee on Equity, Diversity & Inclusion	The purpose of the Committee on Equity, Diversity & Inclusivity is to provide broad review and leadership to Council on matters of Equity, Diversity and Inclusivity issues with respect to: • Tenure and Promotions • Hiring and Retention of members form EDI groups • Approaches to addressing gender bias in the workplace • Research engaging equity recognized groups • Workload and service contributions of EDI members • EDI experiences in Teaching and Learning The Equity, Diversity and Inclusivity committee shall consist of: • Associate Dean, Faculty Affairs (ex officio) • Associate Dean,Research and Partnerships (ex officio) • One primary and one alternate member from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy and Science, Technology & Society. • Two graduate students or postdoctoral fellow/visitors (one primary and one alternate) from any graduate program within the Faculty of Science • One undergraduate student	Meeting is held the last Wednesday of every month.		
	Associate Dean - Faculty, Ex officio	A. Skelton	Designated	
	Associate Dean, Dean - Research & Graduate Education, Ex officio	S.Moghadas	Designated	
	Undergraduate Student Representative	Natalie Moussa	2025	2026
	Graduate Student	Katherine Myers	2025	2026
	Graduate Student	Emily Anacleto	2025	2026
	Biology	D. Golemi-Kotra	2024	2027
	Chemistry	C. Young	2023	2026
	Physics & Astronomy	A. Kumarakrishnan	2025	2026
	Math & Stats	VACANT	2025	2028
	Science, Technology & Society	J. Lazenby	2025	2026

Ryan K Schott, PhD
Dept. of Biology & Centre for Vision Research
York University
4700 Keele Street, Toronto ON M3J 1P3

To: Faculty of Science Council

From: Academic Policy and Planning Committee (APPC)

Date: August 22, 2025

Re: Annual Report for 2024-25

Dear Council,

The Academic Policy and Planning Committee (APPC) successfully led the FSc response to the Faculty of the Future Initiative and the School of Medicine Proposal through a poll of FSc faculty and staff and written letters, which received responses and positive action. APPC met four times to discuss APPC business. We would like to thank Sibonile Siyakatshana for administrative support, as well as our outgoing committee members for their service.

1. Membership

In the 2024 – 2025 academic year, the committee was composed of the following members:

Gerald Audette, Associate Dean, Faculty, Designated
Paula Wilson, Head of Bethune College, Designated
Seyedah Saryarzdi, Undergraduate Student Representative, 2024–2025
Maggie Xu, Elected staff representative, 2024–2025
Ryan Schott, Biology, 2023–2026
Rene Fournier, Chemistry, 2023–2026
Paul Szeptycki, Math & Stats, 2023–2026
William van Wijngaarden, Physics & Astronomy, 2024–2026
Stephanie Domenikos, Science, Technology & Society, 2024–2025

Co-chairs: Rene Fournier and Ryan Schott
Secretary: Sibonile Siyakatshana

2. Committee Meetings

The committee met four times during the year. Please see more details included in the table below.

Ryan K Schott, PhD
Dept. of Biology & Centre for Vision Research
York University
4700 Keele Street, Toronto ON M3J 1P3

Date	Time	Format	Quorum
January 30, 2025	9:00 – 10:30 am	Online (Zoom)	Yes
March 27, 2025	9:00 – 10:30 am	Online (Zoom)	Yes
April 30, 2025	9:00 – 10:30 am	Online (Zoom)	Yes
May 29, 2025	9:00 – 10:30 am	Online (Zoom)	Yes

In addition to formal meetings the committee held several discussions over email throughout the academic year.

3. Review and Approval of Items from the Fsc Undergraduate and Graduate Curriculum Committees

The APPC reviews and approves items from the FSc Undergraduate and Graduate Curriculum Committees for resource implications. During 2024–2025, one item was received requiring review:

> Change in delivery – SC/BIOL 4005 3.0 - The Scientific Method: Applications and Controversies. Submitted by Prof. N. Nivillac

This was discussed at our May 29th meeting where the committee had several questions for follow-up. These were forwarded to Prof. Nivillac, and a response was received. Final discussion and vote for approval will occur at our next meeting in September.

4. APPC Response to the Faculties of the Future Initiative and Interim Report

The APPC led the Faculty's response to Faculties of the Future Initiative and Interim Report. The APPC polled members of the Faculty to determine majority opinions on the Initiative and Report and to solicit specific concerns, feedback, and recommendations. To supplement the poll results APPC co-chairs met with department chairs and Faculties of the Future working group members, and APPC held internal discussions. The formal response took the form of a letter to Lisa Philips, Senior Policy Advisor to the President on the Faculties of the Future Initiative. This letter received a response from Lisa Philips thanking us for our input and acknowledging the opinions of the Faculty.

Ryan K Schott, PhD
Dept. of Biology & Centre for Vision Research
York University
4700 Keele Street, Toronto ON M3J 1P3

5. APPC Response to the School of Medicine Proposal

The APPC also led the Faculty's response to the School of Medicine Proposal. The APPC similarly polled members of the Faculty to determine support for or against the Proposal and to synthesize the specific concerns or suggestions that members had. Based on this poll, APPC drafted a response letter and circulated it to the FSc Dean, Chair of Faculty Council, and Department Chairs for their input and support. Ultimately, this letter was sent by APPC, with the support FSc leadership, to President Rhonda Lenton and David Peters along with a request to attend a Faculty Council meeting for further discussion. The request was met with a positive response and Rhonda Lenton and David Peters will be attending the first FSc Faculty Council meeting of the new academic year to discuss the School and Medicine.

6. Increased communication between FSc APPC and Senate APPRC

In the past there has been little formal communication between FSc APPC and the Senate Academic Policy, Planning and Research Committee (APPRC). To increase communication and better represent Faculty of Science opinions at APPRC, Georges Monette, the Science representative on APPRC was invited to attend the May APPC meeting. This resulted in fruitful discussion and the practice of the Science representative of APPRC attending APPC meetings will continue in the future.

It has been a rewarding and educational experience to serve as co-chair of APPC, especially as we navigate two large-scale University-wide initiatives in the midst of ongoing financial troubles. I thank our committee members for their service and for the opportunity to work together to continually improve our Faculty. I look forward to a new academic year that will offer new opportunities for our Faculty.

Sincerely,

Ryan Schott
Faculty of Science Academic Policy and Planning Committee (APPC) co-chair

FACULTY-LEVEL APPEALS BY TYPE 2024-25				
Petition Type	**Reason**	**GRANTED**	**DISMISSED**	**TOTAL**
Course Add	Enrol In Course(s) After The Faculty Deadline			
Course Drop	Drop Course(s) After Faculty Deadline	2	29	31
	Partially granted with W	5	0	5
Credit				
Departmental/Programme Waiver	Advanced Standing: Course Substitute			
	Advanced Standing: Course Waiver			
	Advanced Standing: Course Transfer			
	Course Substitution for Major or Minor Req. (s)			
	Other			
	Waiver Of Degree Credit Exclusion Legislation			
	Waiver with replacement			
	Take courses out of sequence - Schulich			
	Promotion without satisfying year			
	Reduced course load - Schulich			
Exemptions	Degree Exemption(s)			
Extension	Deferred Standing, extension of deferred	2	1	3
	Course extension			
	Program extension			
Grade Reappraisal	Grade Reappraisal			
Leave	Leave of Absence			
	LOA Medical/compassionate			
	LOA No course available			
	Maternity leave			
Letter of Permission	Credit For Course(s) Taken Elsewhere Without			
Other	Other			
Overload	Course Overload			
Readmission				
Repeat	Repeat Failed Course			
	Repeat Passed Course			
Status	Change degree stream			
	Change to full-time			
	Change to part-time			
	Reinstatement			
	Withdrawal			
	Study at a location other than York			
Stop-out	Education only			
Strike-related	FGS only			
Waiver	Graduate Without Min. Req'd G.P.A.			
	Request For Waiver Of Req. Withdrawal	1	0	1
	Request For Waiver Of Req.Debarment			
	Upgrade G.P.A. In Attempt To Graduate			
	Waiver Of Degree Credit Exclusion Legislation			
	Waiver Of General Education Requirement			
	Waiver Of Honours Standing Regulations			
	Waiver Of In-Faculty Requirement			
	Waiver Of Major Requirement(s)			
	Waiver Of Upper Level Course Requirements			
	Other			
Total		10	30	40

Faculty of Science

Annual Report: Committee on Equity, Diversity, and Inclusion (EDI) 2024—2025

In the 2024—2025 academic year, the Faculty of Science (FSc) Committee on EDI convened on the last Wednesday of each month, except for October, December, and March. The committee appointed new co-chairs, C. Hillel and G. N. Luabeya. The committee worked on several initiatives and engaged in critical discussions, including possible revisions to our mandate. These initiatives, progress made, and areas of future work are detailed herein.

Cultural and Historical Recognition Event

This initiative, brought forward by T. Macfarlane, was an event proposal to feature invited speaker Irvine Carvery, 10th Generation African Nova Scotian for Black History Month. This speaker is featured in the wider event *Africville Meets Toronto*, which highlights lesser-known Black Canadian history. G. Audette reached out to multiple contacts (e.g. Christal Chapman, Margaret Mroziewicz) to explore promotional options. The committee discussed several potential dates for the event but ultimately could not arrange for a suitable time due to pre-existing event schedules. In addition, the high speaker fee was also prohibitive for the scope of the committee, estimated from $12,800 to $18,400. To offset costs, the committee discussed the possibility of the initiative becoming university-wide, or facilitated by partnerships with other faculties, such as LAPS, Lassonde, and so on.

Department Food Drive

This initiative was primarily organized by G. Audette and V. Saridakis who, on behalf of the committee, advertised and invited all FSc members to donate non-perishable food items at the FSc Holiday Potluck and Service Recognition in December 2024. All items were delivered to the Division of Students for inclusion in their food bank. This initiative was successfully carried out by the committee in previous years. Recognizing the food drive as a positive and effective community engagement initiative, the committee recommends carrying out this initiative at other times of year and/or suitable events, such as York Spirit Day.

Academic Accessibility Initiative: Textbook Drive

This initiative, brought forward by C. Hillel, identified student access to textbooks and other course materials as an accessibility and financial need concern. The committee arrived at several findings for some core first- and second-year courses in FSc, as well as some proposed solutions.

Exploring textbook availability at the bookstore for the 2024—2025 academic year, the committee found that electronic copies were always an option for most courses. In many cases, however, while an electronic copy was available, access was limited to 150—180 days, with students paying almost 50% of the cost of a hardcopy in some instances. Notable examples include MATH 1013/1014, CHEM 1000/1001, and PHYS 1012. In addition, certain courses have supplementary elements, such as Webassign, Mastering, Simbio, etc., which may be variably assigned according to the course instructor. It is unclear whether these constitute an ancillary fee, in which case the committee would advise they be listed in the YorkU course atlas for transparent reporting of student fees. Some of these courses include BIOL 2021, BIOL 1000, BIOL 1001, CHEM 2011, MATH 1013/1014 MATH 1014. Finally, the committee found that the day-1-digital e-book ended their collaboration with the bookstore recently, which was previously a means for students to purchase lifetime access to texts at a reasonable fraction of the hardcopy price.

C. Hillel was tasked with exploring the feasibility and implementation of this initiative. She consulted Dr. Paula Wilson regarding the feasibility of setting up a textbook repository in Bethune College. While a repository created in Bethune College could be a possibility, there were concerns raised about the long-term management and maintenance of such a repository. C. Hillel consulted a PhD student in the Department of Physics & Astronomy, Olga Andriyevska, who previously organized a textbook drive in the department. Andriyevska found that collecting and sorting through physical textbooks required a lot of labor. In addition, she had students apply for resources through a form, however demand often far exceeded supply. Indeed, the committee discussed that the popularity and increasing availability of e-texts would dismiss physical textbook repositories as the most viable solution. Finally, O. Andriyevska suggested instead changing departmental paradigms to be most effective, such as assigning open courseware, assigning digital texts freely available from the library, or assigning custom lecture notes created by the instructor. Such strategies have been implemented in physics courses PHYS 1800, PHYS 3030, and PHYS 3040, respectively. Due to logistical complexities, the initiative remains under discussion. C. Hillel, on behalf of the committee, encourages the following options to be explored for further pursuit of the initiative: 1) shifting to open-source course materials, 2) creation and/or curation of course materials by professors, 3) purchase by the library of several-year or lifetime electronic licenses for textbooks required for core courses, and 4) department-based rental programs.

Promotion of EDI Initiatives and Events Internal and External to FSc

This initiative, brought forward by G. N. Luabeya and V. Saridakis, focused on featuring Black Scientists Canada and related EDI content in science outreach. Black Scientists Canada is an outreach, advocacy, and networking organization sponsored in part by York University which

seeks to increase representation of Black Canadians in STEM fields. A motion was passed for G. N. Luabeya and V. Saridakis to acquire promotional materials and membership information. They advise promotion of the annual conference, BE-STEMM, as well as their monthly seminar series. The discussion of this initiative extended to the advertisement of other similar organizations and events, which otherwise receive limited publicity in FSc. These include, for example, the 2SLGBTQ+ in Stem Conference hosted by Toronto Metropolitan University and the Women+ in Physics Canada Conference, hosted by the Canadian Association of Physicists. A motion was additionally passed to task G. Audette and V. Saridakis with actioning a plan to amplify EDI initiatives through the FSc. Furthermore, internal EDI initiatives created by Dr. Tamara Kelly and Dr. Ashley Nahornick were strongly promoted and well attended by the committee, including the Professional Session with Dr. Nicole Campbell and the STEM Accessibility Workshop with Dr. Mahadeo Sukhai.

Mandate Revision and Improvement

The committee reviewed the current EDI Committee mandate, originally developed by G. Audette in 2018, which outlines broad action items and goals for the committee. As part of the discussion, members acknowledged that the committee currently lacks access to certain institutional processes and information—such as tenure and promotion, hiring, and retention—and debated whether such areas should be included in the mandate. While some members expressed concern about including items outside the committee's direct purview, others argued that the mandate should remain inclusive of areas the committee may one day influence. Furthermore, a broader scope could provide greater flexibility and vision, with the understanding that some goals may not yet be actionable.

To support future revisions, the committee brainstormed and reflected on the existing mandate and proposed updates. The existing template is available in the 2024–2025 Team folder. Once revisions are finalized, the updated mandate will require formal approval by the Faculty Council and subsequently by the Senate Executive. In addition, several structural improvements were proposed to strengthen the committee's work: the committee suggested the idea of conducting a faculty- and staff-wide survey to assess current EDI engagement and identify areas for growth. Tools such as MachForm or Microsoft Forms were recommended. Though initially considered for committee representatives, it was agreed that surveying the broader community would result in more meaningful insight. A proposal was made to invite representatives from other FSc committees to attend EDI meetings to promote collaboration and integrate EDI practices more broadly across governance structures.

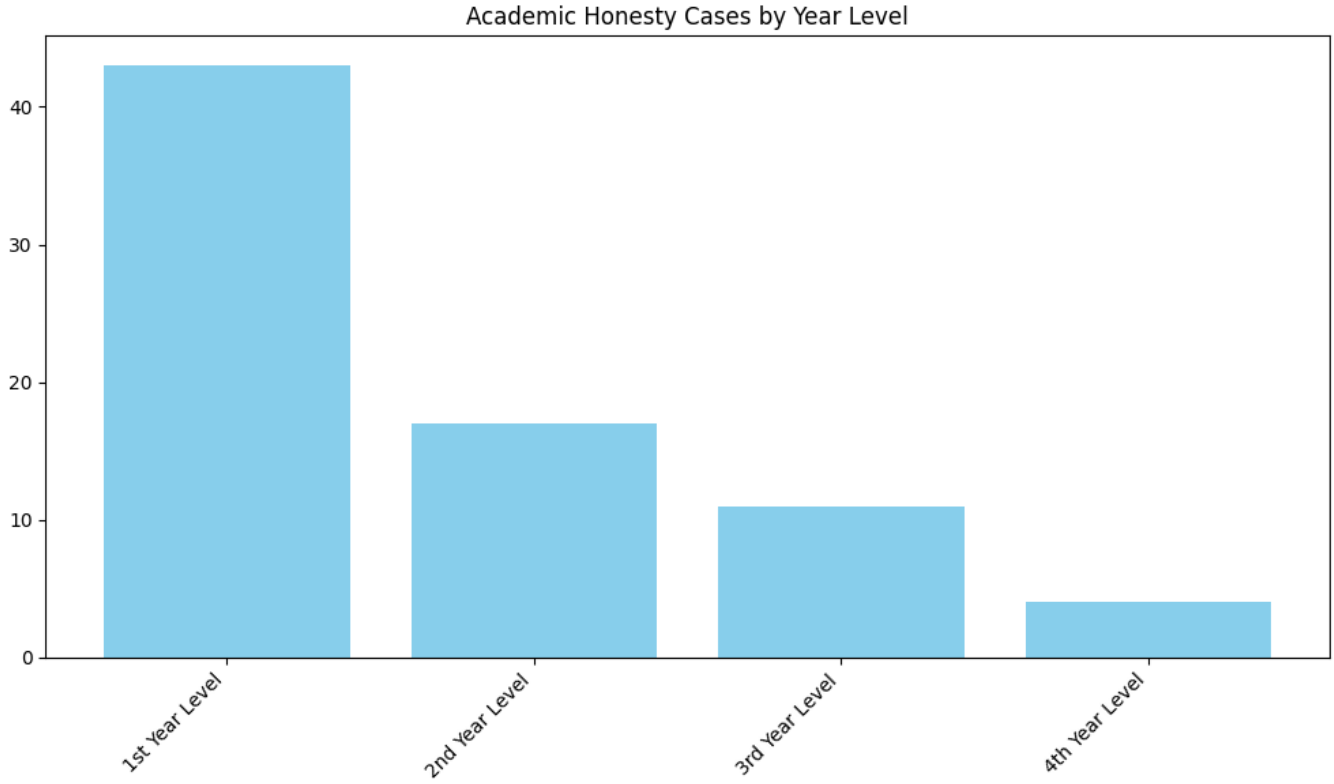
Suggested Transition Meeting

The co-chairs recommend that the incoming committee meet with the previous chair(s) to review the initiatives discussed during the past year, particularly those with the potential for continued development. This transition meeting would help ensure continuity and would hopefully benefit the incoming committee members.

Annual Report to Science on Academic Honesty

July 2024 - July 2025

Cases by Year Level



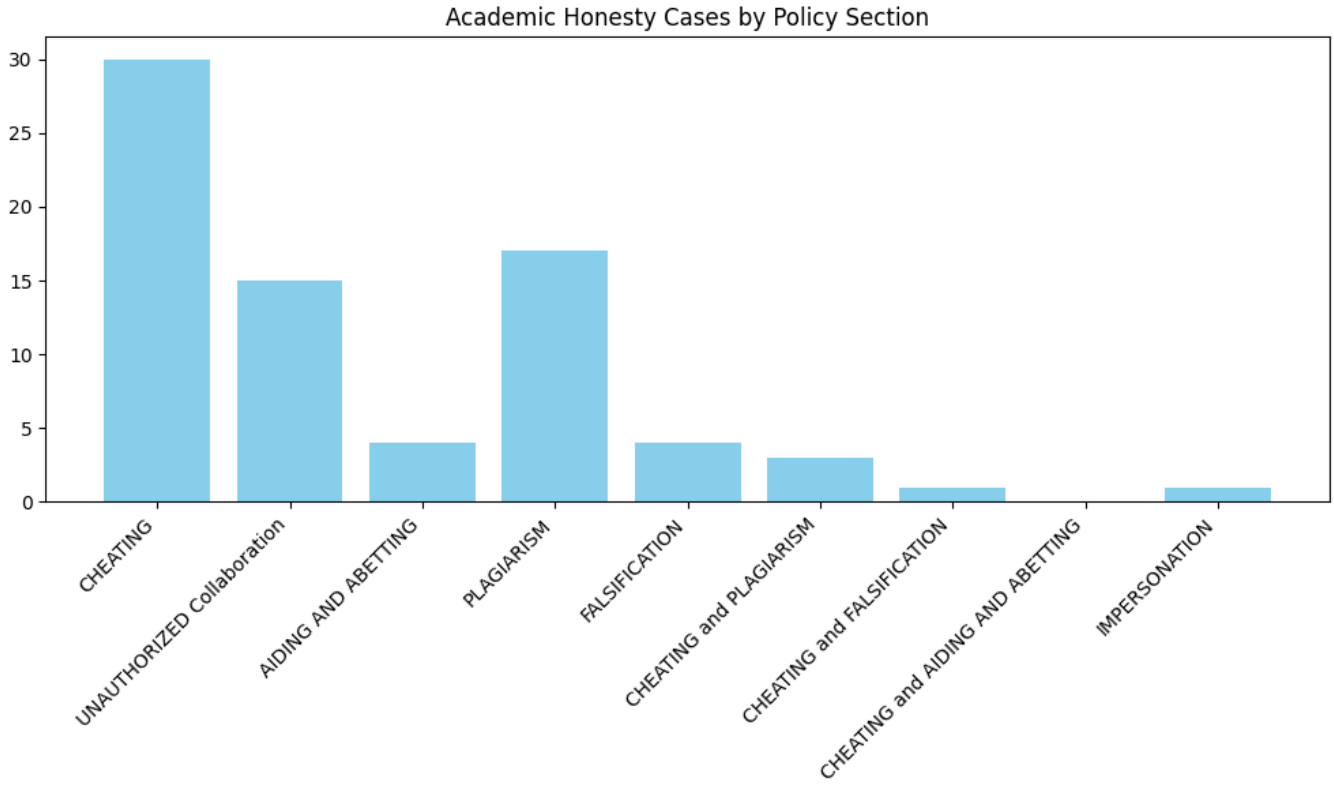
Total Cases: 75

Average per Year Level: 18.75

Highest: 1st Year Level (43 cases)

Lowest: 4th Year Level (4 cases)

Cases by Policy Section



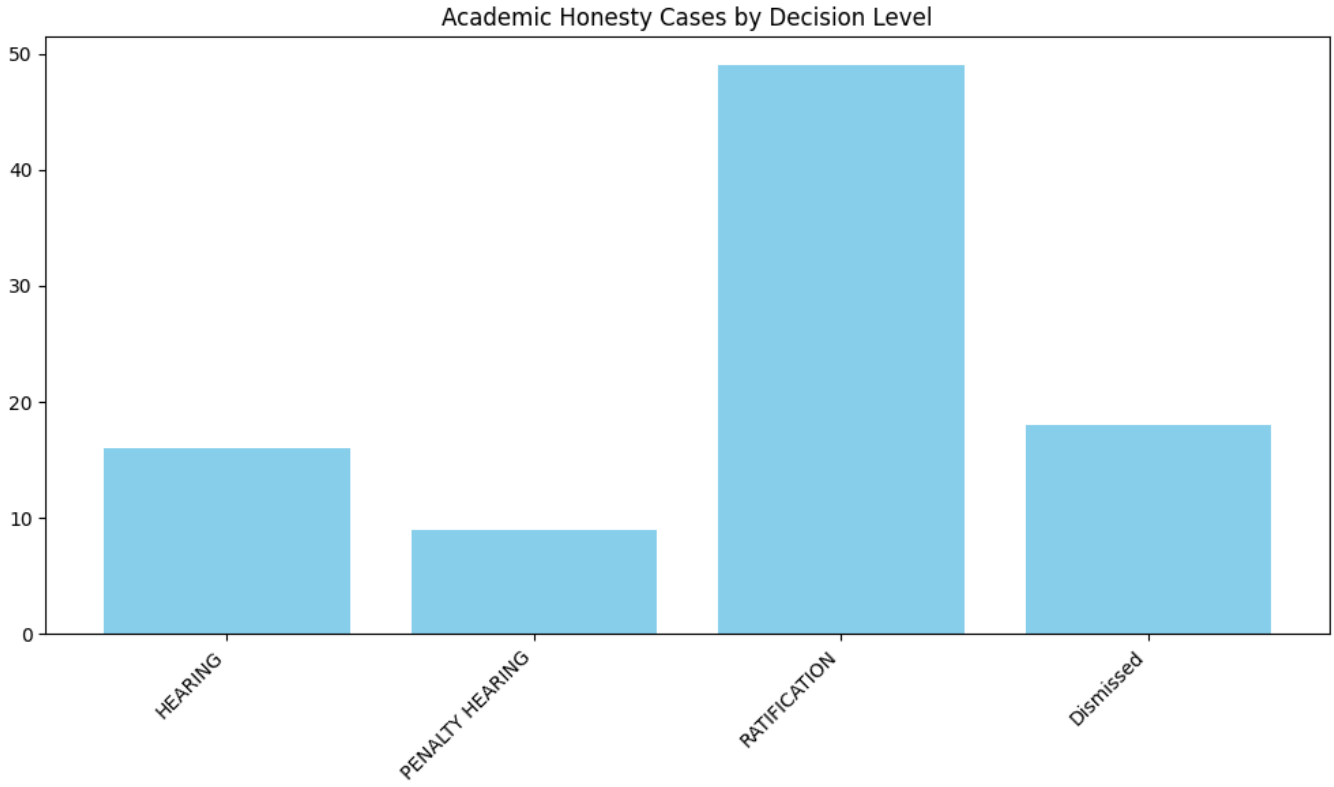
Total Violations: 75

Average per Policy Section: 8.33

Highest: CHEATING (30 cases)

Lowest: CHEATING and AIDING AND ABETTING (0 cases)

Cases by Decision Level



Total Decisions: 92

Average per Decision Type: 23.00

Highest: RATIFICATION (49 cases)

Lowest: PENALTY HEARING (9 cases)

Graduate Curriculum Committee

Report to Council 2024 - 25

Mandate:
To provide broad review and commendation to Council via the Academic Policy and Planning Committee of all proposals received from Graduate Programs with respect to: New Course Proposals, Course Change Proposals, Minor Changes to Program/Graduate Diploma Academic Requirements, Major Modifications to Program/Graduate Diploma Academic Requirements, New Graduate Fields, New Graduate Diplomas, New Graduate Degree Programs.

Committee composition:
R. Hili (Chair), D. Golemi-Kotra, A. Muzzin, P. Ingram, J.P. Paluzzi, J. Tran (Graduate Student Rep), V. Saridakis (ex-officio)

Item for Information

The following is a summary of proposals approved by the committee during the 2024 – 25 academic year

Changes to Existing Degree	Changes to Existing Diploma	Changes to Courses	New Course Proposals
5	1	2	3

R. Hili, Chair
August 5, 2025

Report to council 2024/25 - July 1, 2024 - June 30, 2025

FACULTY-LEVEL PETITIONS BY TYPE 2024-2025					
Petition Type	**Reason**	**DENIED**	**GRANTED**	**PARTIALLY GRANTED**	**Grand Total**
Course Add	Enrol In Course(s) After The Faculty Deadline				0
Course Drop	Drop Course(s) After Faculty Deadline	90	29	36	155
Credit					0
Departmental/Programme Waiver	Advanced Standing: Course Substitute				0
	Advanced Standing: Course Waiver				0
	Advanced Standing: Course Transfer				0
	Course Substitution for Major or Minor Req. (s)				0
	Other				0
	Waiver Of Degree Credit Exclusion Legislation				0
	Waiver with replacement				0
	Take courses out of sequence - Schulich				0
	Promotion without satisfying year requirements - Schulich				0
	Reduced course load - Schulich				0
Exemptions	Degree Exemption(s)				0
Extension	Deferred Standing, extension of deferred standing	46	240	0	286
	Course extension				0
	Program extension				0
Grade Reappraisal	Grade Reappraisal	0			0
Leave	Leave of Absence				0
	LOA Medical/compassionate				0
	LOA No course available				0
	Maternity leave				0
					0
Letter of Permission	Credit For Course(s) Taken Elsewhere Without LOP				0
Other	**Other**	**7**	**6**		13
Overload	Course Overload	5	48		53
Readmission					0
Repeat	Repeat Failed Course				0
	Repeat Passed Course				0
Status	Change degree stream				0
	Change to full-time				0
	Change to part-time				0
	Reinstatement				0
	Withdrawal (con't w/o interupt)	9	2	0	11
	Study at a location other than York				0
Stop-out	Education only				0
Strike-related	FGS only				0
Waiver	Graduate Without Min. Req'd G.P.A.				0
	Request For Waiver Of Req. Withdrawal	0	1	0	1
	Request For Waiver Of Req.Debarment				0
	Upgrade G.P.A. In Attempt To Graduate				0
	Waiver Of Degree Credit Exclusion Legislation				0
	Waiver Of General Education Requirement				0
	Waiver Of Honours Standing Regulations				0
	Waiver Of In-Faculty Requirement				0
	Waiver Of Major Requirement(s)				0
	Waiver Of Upper Level Course Requirements				0
	Other				0
Total		157	326	36	519

To: Faculty of Science Council
From: Standing Committee on Teaching and Learning (CoTL)
Date: August 1, 2025
Re: Annual Report for 2024-25

Dear Council,

The Committee on Teaching and Learning (CoTL) successfully adjudicated nine Leadership Awards this year. CoTL also hosted and promoted teaching and learning events. CoTL met (9) times to discuss CoTL business and adjudicate the Faculty of Science teaching awards. We would like to thank S. Siyakatshana for administrative support, as well as our outgoing committee members for their service.

1. Membership

In the 2024 – 2025 academic year, the committee was composed of the following members:

M. Scheid, Associate Dean Students, Designated
V. Gotcheva, ITC Director, Office of the Dean, Designated
Y. Su, Teaching Commons Representative, Designated
M. Wang, Stacie Science Library, Designated (attended W26 term)
J. Atallah, Department of Biology, (term until 2026)
L. A. Puentes Jacome, Department of Biology, (term until 2027)
T. Mirkovic, Department of Chemistry, (term until 2026)
D. Wilson, Department of Chemistry, (term until 2025)
N. Blinov, Department of Physics & Astronomy, (term until 2025)
C. Boukaré, Department of Physics & Astronomy, (term until 2025)
J. Cao, Department of Mathematics & Statistics, (term until 2025)
VACANT, Department of Mathematics & Statistics, (term until 2027)
C. Rozins, Department of Science, Technology and Society (term until 2027)
D. Hossain, Staff Representative (term until 2025)
M. Blanco, Undergraduate Student Representative, (term until 2025)
T. Cosby, Graduate Student Representative (term until 2025)
S. Salam, Graduate Student Representative (term until 2025)
A. Nahornick, Educational Development Specialist, (term until 2025)
P. Wilson, Department of Biology, Bethune College, (term until 2025)

Chair: L.A. Puentes Jácome
Secretary: S. Siyakatshana

2. Committee Meetings

The committee met 9 times during the year. Please see more details included in the table below.

Date	Time	Format	Quorum
September 19, 2024	10:00 – 11:30 a.m.	Online	Yes
October 17, 2024	10:00 – 11:30 a.m.	Online	Yes
November 21, 2024	10:00 – 11:30 a.m.	Online	No
December 12, 2024	9:00 – 11:00 a.m.	Hybrid, adjudication meeting	Yes

Date	Time	Format	Quorum
January 16, 2025	10:00 – 11:30 a.m.	Online	Yes
February 20, 2025	10:00 – 11:30 a.m.	Online	Yes
March 20, 2025	10:00 – 11:30 a.m.	Online	Yes
April 17, 2025	10:00 – 11:30 a.m.	Online	Yes
May 15, 2025	10:00 – 11:30 a.m.	Online	Yes

3. Adjudication of Teaching Awards

CoTL administered the adjudication of both the Excellence in Teaching Awards and the Excellence in Educational Leadership Awards in the Fall of 2024 based on completed nomination packages.

CoTL selected the following recipients for the Awards:

Educational Leadership Award – Graduate Level:

i. Milong Wang, Kinesiology and Health Science

Educational Leadership Award – Faculty

i. Tamara Kelly, Department of Biology

Excellence in Teaching Award – Junior Tenure Stream

ii. Jade Atallah, Department of Biology
iii. Robin Marushia, Division of Natural Science, Science, Technology and Society

Excellence in Teaching Award – Senior Tenure Stream

i. Hovig Kouyoumdjian, Department of Chemistry
ii. Nicole Nivillac, Department of Biology

Excellence in Teaching Award – Contract Faculty

i. Angela Cope, Division of Natural Science, Science, Technology and Society

The Richard Jarrell Excellence in Teaching at the Graduate Level Award

ii. Britney Picinic, Department of Biology
iii. Emily Anacleto, Department of Chemistry

4. Speaker Series and Events:

CoTL hosted the following event:

- Promotion & Support of Teaching & Learning in Chemistry by Dr. Andrew Dicks (University of Toronto)

CoTL promoted and attended the following events organized by Dr. Tamara Kelly and Dr.

Ashley Nahornick:

- Navigating murky waters: seeking clarity for including students with disabilities in science courses, with Dr. Mahadeo Sukhai—Canada's first congenitally blind geneticist—and Ainsley Latour, co-founders of IDEA-STEM Inc.
- The intersection of essential requirements and accessibility supports in STEM education (workshop), with Dr. Mahadeo Sukhai.

5. Ethics Review Subcommittee for 2024 – 2025

As per the request of the Faculty of Science, CoTL established an Ethics Review Subcommittee for the 2024 – 2025 academic year. The committee was composed by A. Nahornick, V. Gotcheva and D. Wilson. New membership will be required for the 2025 – 2026 academic year.

6. CoTL Working Group Initiative to Address Missed and Deferred Exams

CoTL formed a working group to examine the pressing issue of missed and deferred exams. Membership and action items for this working group will be revised in the fall of 2025 considering expected policy changes to be rolled out centrally for the upcoming academic years.

It has been rewarding to serve as Chair of CoTL. I deeply thank committee members for the opportunity to learn and work together in pursue of enhancing the quality of the student learning experience and fostering a vibrant teaching and learning community. I look forward to an enriching new academic year.

Sincerely,

L.A. Puentes Jácome
Faculty if Science, Committee on Teaching and Learning (CoTL) Chair

RESEARCH & AWARDS COMMITTEE ANNUAL REPORT 2024 – 25

Committee composition:

S. Morin, T. Baumgartner (Alternate Department of Chemistry representative), D. Golemi-Kotra, H. Zhu, H. Mialet, Momo Das (Undergraduate Student Representative), A. Tajeri (Graduate Student Representative) R. Kannan, and V. Saridakis (AD – Research & Graduate Education, Ex-officio)

Mandate:

It is the mandate of the Committee to make recommendations and provide advice to Council on policy matters related to research. In addition, the Committee's functions and responsibilities include:

1. To adjudicate the following Faculty competitions/programs and recommend awardees/recipients to the Dean:
   - Junior Faculty Fund and Minor Research Grant
   - Specific Research Grants (leave and non-leave)
   - York Research Chair
2. To ratify NSERC's Undergraduate Student Research Awards (USRA) and Dean's Undergraduate Research Awards (DURA) that are adjudicated at the departmental level;
3. To provide advice to the Dean or individual departments on faculty research related awards, particularly prestigious awards
4. To liaise with the Science Librarians on matters related to Library collections and services.

All committee members are required to complete the Unconscious Bias / EDI workshops offered by the Office of the Vice-President Equity, People & Culture. Additionally, all committee members are required to complete the training modules Bias in Peer Review, produced by the Tri-Agencies, and one of the Sex and Gender training modules, produced by CIHR. When required, sub-committees can be created or additional colleagues may be invited to participate in the activities of the committee to adjudicate awards and grants should too many regular committee members find themselves in conflict of interest and quorum cannot be reached.

Committee Work:

During the past academic year, the committee met regularly to adjudicate and formulate policies surrounding adjudication of awards. Here is a summary of the committee's work during the 2024 – 25 academic year:

- The committee evaluated the annual Faculty of Science research awards. The committee received one nomination file for the FSc Early Career Researcher Award, one nomination file for the FSc Graduate Mentorship Award, and three nomination files for the FSc Established Researcher Award. The awardees are:
  - Trevor VandenBoer - Early Career Researcher Award (acclaimed)
  - Wendy Taylor – Established Researcher Award

  The application for the FSc Graduate Mentorship Award did not meet the level of excellence seen in previous successful applicants in this category and thus was not awarded.
- Applications were adjudicated and funds were dispersed from the YUFA Junior Faculty Fund and YUFA Minor Research Grant.
- The Summer 2025 NSERC USRA applications were ratified as adjudicated and recommended by our Science departments.

V. Saridakis

Associate Dean – Research & Graduate Education, Ex-officio

June 10, 2025

SRC TENURE & PROMOTION COMMITTEE

2024-25 ANNUAL REPORT

June 3 2025

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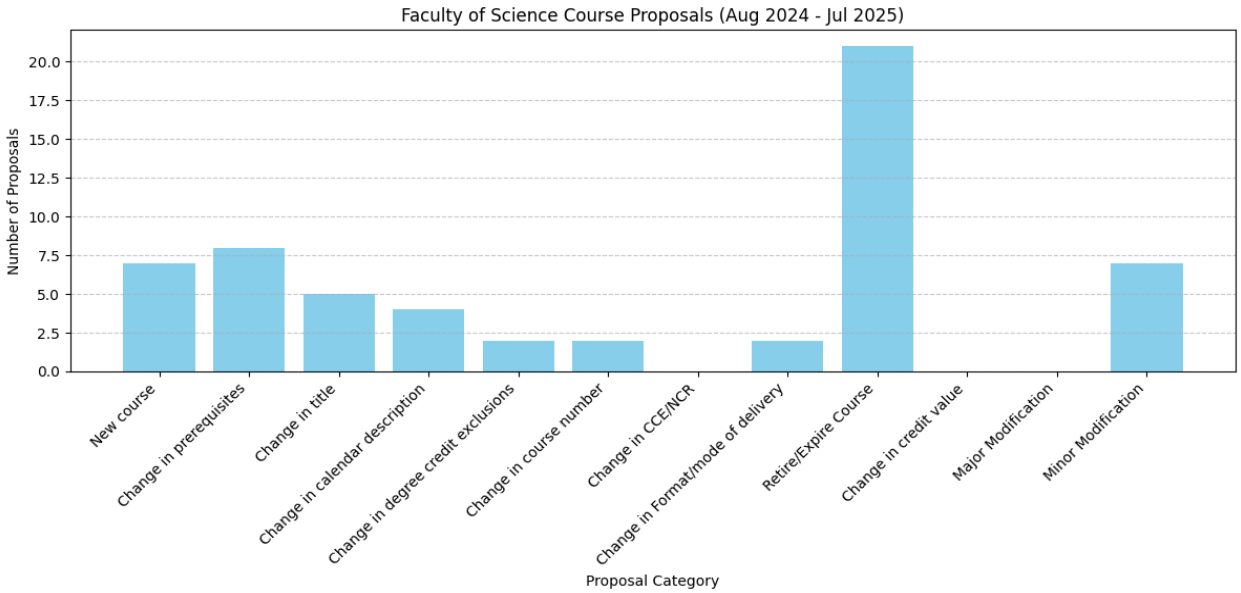
1. **In the 2024-2025 academic year, the FSc Senate Review Committee (SRC) reviewed eight files.**

   - Four files for tenure and promotion to Associate Professor
   - Four files for promotion to Full Professor
   - Four files for Advancement to Candidacy

2. **Brief comment on the Review Committee's Correspondence with Adjudicating Committees and File Preparation Committees**

   The SRC processed most of these files without any major concerns.

UNIT STANDARDS			
Department	**Last reviewed by SRC T&P**	**Last reviewed by Senate**	**Status**
Biology	January 28, 2020	2019	In Accord
Chemistry	October 17 2024	2024	In Accord
Mathematics & Statistics	November 26, 2019	2019	In Accord
Physics & Astronomy	June 23, 2020	2020	Department advised an updated version is needed.
Department of Science, Technology and Society	September 27, 2022	2010	Back with department for amendments.



Category	Number of Proposals
New course	7
Change in prerequisites	8
Change in title	5
Change in calendar description	4

Category	Number of Proposals
Change in degree credit exclusions	2
Change in course number	2
Change in CCE/NCR	0
Change in Format/mode of delivery	2
Retire/Expire Course	21
Change in credit value	0
Major Modification	0
Minor Modification	7
Total Course Proposals	**58**

FACULTY OF
SCIENCE

Science
Curriculum
Committee

AGENDA

Date: Wednesday, May 21 2025

Time: 9:00 am -Zoom

Members: Professor Michael Scheid, Associate Dean of Students, Professors Jade Atallah, Michael Haslam, Ozzy Mermut, Lisa Robertson, Robin Metcalfe (chair), Derek Jackson, Paula Wilson, Student Representatives, Tina Barhagh and Elia Xhindole. Tina Reddi, Secretary.

1.1 Minutes of the past meetings:

1.1.1 Minutes of the Meeting for February 2025

1.2.1 Minutes of the Meeting for March 2025

1.2 Biology:

1.2.1 Change in delivery – SC/BIOL 4005 3.0 - The Scientific Method: Applications and Controversies. Submitted by Prof. Nicole N.

1.3. Natural Science:

1.3.1 Change in Calendar Description – SC/NATS 1830 – Mysteries of Everyday Materials. Submitted by Prof. Robin M.

1.4 Mathematics and Statistics:

1.4.1 Change in Course Number and Title: SC/MATH 4130 3.0B - Topics in Probability and Statistics – Introduction to the Theory and Methods of Time Series Analysis

1.4.2 Change in Course Number: SC/MATH 4130K 3.0 - Survival Analysis

1.4.3 Retire/Expire: SC/MATH 4130A 3.0 – Topics in Probability and Statistics

1.4.4 Retire/Expire: SC/MATH 4130C 3.0 – Statistical Analysis

1.4.5 Retire/Expire: SC/MATH 4130D 3.0 – Methods of Statistical Analysis

1.4.6 Retire/Expire: SC/MATH 4130E 3.0 – Bayesian Statistics

1.4.7 Retire/Expire: SC/MATH 4130G 3.0 – Topics in Probability and Statistics: Applied Categorical Data Analysis

1.4.8 Retire/Expire: SC/MATH 4130H 3.0 – Topics in Probability and Statistics

1.4.9 Retire/Expire: SC/MATH 4130M 3.0 – Topics in Probability and Statistics

1.4.10 Retire/Expire: SC/MATH 4130N 3.0 – Multivariate Statistic

1.4.11 Retire/Expire: SC/4930 3.0A – Topics in Applied Statistics: Statistical Quality Control

1.4.12 Retire/Expire: SC/MATH 4930B - Topics in Applied Statistics: Simulation and the Monte Carlo Method

1.4.13 Retire/Expire: SC/MATH 4930 3.0C – Forecasting and Time Series

All the above proposals submitted by Profs. **Jairo Diaz-Rodriguez and J. Janse van Rensburg**

Changes to Existing Course

Faculty:

Department:	Biology	**Date of Submission:**	December 2024
Course Number:	4005	**Effective Session:**	Fall 2026
Course Title:	The Scientific Method: Applications and Controversies		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☐	retire/expire course
☒	other (please specify): add tutorial	☐	

Change From:	To:
This course explores the issues of integrity as associated with the scientific method and research, including our responsibilities as scientists within an framework of integrity and veracity. The importance of ethical conduct, particularly with respect to writing, data collection, presentation of results, and attribution will be discussed as well as the implications of violations (e.g., plagiarism, results tampering). Lectures will provide background information and in class case studies will be used for examples and in-depth exploration via problem-based learning. Three lecture hours per week. One term. Three credits. Prerequisites: Must be in fourth year of a Biology program (i.e. minimum 60 credits). **Currently offered as LECT and BLEN.**	This course explores the issues of integrity as associated with the scientific method and research, including our responsibilities as scientists within a framework of integrity and veracity. The importance of ethical conduct, particularly with respect to writing, data collection, presentation of results, and attribution will be discussed as well as the implications of violations (e.g., plagiarism, results tampering). Lectures will provide background information, and in-class case studies will be used for examples and in-depth exploration via problem-based learning. Occasionally guest lecturers will provide current perspectives on research misconduct. Tutorials will provide experiential hands-on analyses of cases, including the basics of critical questioning and argumentation. Three lecture hours and two tutorial hours per week. One term. Three credits. Prerequisites: Must be in fourth year of a Biology program (i.e. minimum 60 credits). **Offered as LECT and BLEN**

Rationale:

BIOL 4005 3.0 currently has 3 lectures hours. Adding a two-hour tutorial would allow for more contact time with students to support better development of skills, particularly those transferable to other disciplines. It will also create an opportunity to bring in guest lecturers by moving some course material to the tutorial; effectively increasing student learning and experience.

The course would still be taught as LECT or BLEN (depending on the offering). The topic of research integrity requires a strong grasp of critical thinking and argumentation. Over the past 2 years of offering, we have noticed these skills are underdeveloped. To support student progress in acquiring these, we will add a tutorial in which these can be built more effectively.

The most important aspect of this is that the addition of a tutorial would also allow us to use some of the lecture time for guest lectures to provide current perspectives on responsible conduct of research. It would also allow for an increase in the course size to 100 (currently 50). Currently the course activies are only able to be accomplished with a max of 50 students. To increase enrollment we would either need to move these activies to a tutuorial where there would be time, or remove them from the course which would lessen the student experience.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

FS Resource Implications Form Unit: ____biology_____ Date: _____Jan 24 2025_____

		Course(s) Created ☐ or Modified to X☐ (check one)		Course(s) Retired ☐ or Modified from ☐
Complete Course Designation		Sc/Biol 4005 3.0 It would apply to in person, blended, and online offerings.		
Enrolment (Estimate or Last Offering)		Capped at 50, enrollment 50. (see point below: the change could allow this to increase)		
Number of:	**Lecture Sections:**	10 @ 3hrs each for 30 hours of lecture material		
	Lab Sections:			
	Tutorial Sections:	2 (24 students each – for current enrollment) (see point below, current cap is 50, tutorials will allow this to change. There will be one additional tutorial for each 24 students added.)		
Number of:	**Course Coordinators (Tutor 1):**	2 (one per tutorial) (see point below, current cap is 50, tutorials will allow this to change. There will be one additional tutorial for each 24 students added) The assignment needed would be a 0.25 assignment or 0.125 TAship for each tutorial (roughly 67.5 hours)		
	Lab Demonstrators (Tutor 2):			
	Mark/Graders (Tutor 3):			
Prerequisites (P) Corequisites (C) Credit Exclusions (E)		Must be in fourth year of a Biology program (i.e. minimum 60 credits)		

For which degree program is this required (if applicable)?	Not required for a specific degree but can be used to meet degree requirements for all biology programs		
Other resource implications (please specify)	Classroom size will increase. However, if classroom not available we do have the blended version which would have in person tutorials and online lecturing. This is another reason the tutorials can help increase the enrollment cap with this course. Tutorials can be offered online with the online version.		
Reason(s) for creation/ modification/ retirement	Creating the tutorial will accomplish several tasks: 1) Improved student experience 2) Allow the introduction of experiential learning to the course by placing class material into the tutorial allowing guest lecturers to attend and instruct the course 3) Will allow the course size to be increased. Currently the tutorial activities occur in the classroom which limits the size of enrollment. With tutorials these components can occur concurrently hence allowing increased course size. This is applicable to all offerings of 4005 – in person, blended, and online.		

Changes to Existing Course

Faculty:

Department: STS/NATS

Date of Submission: April 2025

Course Number: NATS 1830

Effective Session: 2026/2027

Course Title: Mysteries of Everyday Materials

Type of Change:

- [ ] in pre-requisite(s)/co-requisite(s)
- [ ] in cross-listing
- [ ] in course number/level
- [ ] in degree credit exclusion(s)
- [ ] in credit value
- [ ] regularize course (from Special Topics)
- [ ] in title (max. 40 characters for short title)
- [ ] in course format/mode of delivery *
- [X] in Calendar description (max. 40 words or 200 characters)
- [ ] retire/expire course
- [ ] other (please specify): NCR update

Change From:	To:
Pre-requisites: None **Course Description:** Why does rice soften upon boiling? Why does gasoline burn but water does not. These questions and more will be examined through an exploration of matter at the molecular level. The relationship between physical properties and the usefulness of everyday materials will also be discussed. Laboratory exercises are often included in this course. **Course Credit Exclusion:** SC/NATS 1820 6.00 **NCR:** if this course is taken after successful completion of SC/CHEM 1000 3.00 or SC/CHEM 1001 3.00. Not open to any students enrolled in the Chemistry program	**Pre-requisites:** None **Course Description:** Have you ever wondered how a battery works? Why nothing sticks to Teflon®? Or how fireworks get their beautiful colours? To understand the matter that makes up this world around us, we need to appreciate and recognize that Chemistry – the study of matter – is at the heart of it all. This course enables students to understand the physical and chemical properties of a variety of materials using a Chemistry lens. Through interactive lectures, in-class discussions, and laboratory experiments, students journey through the chemical world and discover the power of Chemistry and how the chemical structure of matter governs its reactivity and properties. **Course Credit Exclusion:** SC/NATS 1820 6.00 **NCR:** if this course is taken after successful completion of SC/CHEM 1000 3.00 or SC/CHEM 1001 3.00. Not open to any students enrolled in the Chemistry program

Rationale:	Updating course description to reflect changes in content focus and course structure.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130B	**Effective Session:**	
Course Title:	Topics in Probability and Statistics – Introduction to the Theory and Methods of Time Series Analysis		

Type of Change:

[ ]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[X]	in course number/level	[ ]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[X]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[ ]	in Calendar description (max. 40 words or 200 characters)	[ ]	retire/expire course
[ ]	other (please specify):	[ ]	

Change From:	**To:**
Number: 4130B Title: Topics in Probability and Statistics – Introduction to the Theory and Methods of Time Series Analysis	Number: 4331 Title: Theory and Methods of Time Series Analysis

Rationale:

There is a lot of confusion since there are multiple 4130X courses.
The change in title is to give more clarity on the course.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130K	**Effective Session:**	
Course Title:	Survival Analysis		

Type of Change:

[ ]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[X]	in course number/level	[ ]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[ ]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[ ]	in Calendar description (max. 40 words or 200 characters)	[ ]	retire/expire course
[ ]	other (please specify):	[ ]	

Change From:	**To:**
Number: 4130K	Number: 4332

Rationale: There is a lot of confusion since there are multiple 4130X courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130A	**Effective Session:**	
Course Title:	Topics in Probability and Statistics		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130C	**Effective Session:**	
Course Title:	Statistical Analysis		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130D	**Effective Session:**	
Course Title:	Methods of Statistical Analysis		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130E	**Effective Session:**	
Course Title:	Bayesian Statistics		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130G	**Effective Session:**	
Course Title:	Applied Categorical Data Analysis		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130H	**Effective Session:**	
Course Title:	Topics in Probability and Statistics		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130M	**Effective Session:**	
Course Title:	Topics in Probability and Statistics		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4130N	**Effective Session:**	
Course Title:	Multivariate Statistic		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4930A	**Effective Session:**	
Course Title:	Statistical Quality Control		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

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Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4930B	**Effective Session:**	
Course Title:	Simulation and Statistical Approach/ Simulation and Statistical Perspective / Simulation and the Monte Carlo Method		

Type of Change:

[ ]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[ ]	in course number/level	[ ]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[ ]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[ ]	in Calendar description (max. 40 words or 200 characters)	[x]	retire/expire course
[ ]	other (please specify):	[ ]	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years (or never been offered) and has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: Science

Department:	Mathematics and Statistics	**Date of Submission:**	
Course Number:	4930C	**Effective Session:**	
Course Title:	Forecasting and Time Series		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200 characters)	☒	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**

Rationale:

There is a lot of confusion since there are multiple 4130X courses. The course hasn't been thought in 10+ years (or never been offered) and has been replaced by other courses.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

FACULTY OF
SCIENCE

Science
Curriculum
Committee

AGENDA

Date: Tuesday, July 22 2025

Time: 9:00 am -Zoom

Members: Professor Michael Scheid, Associate Dean of Students,
Professors Jade Atallah, Michael Haslam, Ozzy Mermut, Lisa Robertson, Robin Metcalfe (chair), Derek Jackson, Paula Wilson, Student Representatives, Tina Barhagh and Elia Xhindole. Tina Reddi, Secretary.

1.1 Minutes of the meeting:

1.1.1 May 21 2025

1.2 Biology:

1.2.1 Change in Degree Credit Exclusion and NCR Notation: SC/BIOL 2900 3.0 – Clinical Microbiology for Nurses.

1.2.2 Change in Pre-requisites: SC/BIOL 4390 3.0 – Population Genetics.

1.2.3 Retire/expire: SC/BIOL 2030 3.0 – Animals.

1.2.4 Retire/expire: SC/BIOL 2050 4.0 – Ecology.

1.2.5 Retire/expire: SC/BIOL 3003 2.0 – Field Course. Submitted by Prof. Nicole Nivillac

1.2.6 Retire/expire: SC/BIOL 3003 3.0 – Field Course.

1.2.7 Retire/expire: SC/BIOL 3150 3.0 – Microbiology.

1.2.8 Retire/expire –and change in course number, degree credit exclusion: SC/BIOL 4000 3.0 – Honours Thesis.

1.2.9 Change in Degree Credit Exclusion: SC/BIOL 4000 3.0 – Honours Thesis.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Winter 2025
Course Number:	SC/BIOL 2900 3.0	**Effective Session:**	Fall 2026
Course Title:	Clinical Microbiology for Nurses		

Type of Change:

[ ]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[ ]	in course number/level	[X]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[ ]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[ ]	in Calendar description (max. 40 words or 200	[ ]	retire/expire course
[X]	other (please specify): NCR Notation	[ ]	

Change From:	**To:**
Course Description: An introductory course in medical microbiology designed for nursing students. Topics include: structure/function relationships of viruses, bacteria and fungi; physical and chemical control of microbial growth; human/microbe interactions; immunology; major infectious diseases of humans; epidemiology and public health. Prerequisite: Entry in the collaborative Nursing program. Course credit exclusions: SC/BIOL 2905 3.00, SC/BIOL 3150 4.00. Note: Not eligible for biology credit towards a Biology/Biochemistry /Environmental Biology program. Not open to students who have taken SC/BIOL 3150 4.00.	**Course Description:** An introductory course in medical microbiology designed for nursing students. Topics include: structure/function relationships of viruses, bacteria and fungi; physical and chemical control of microbial growth; human/microbe interactions; immunology; major infectious diseases of humans; epidemiology and public health. Prerequisite: Entry in the collaborative Nursing program. Course credit exclusions: SC/BIOL 2905 3.00, ~~SC/BIOL 3150 4.00~~ Note: Not eligible for biology credit towards a Biology/Biochemistry /Environmental Biology program. NCR: any student who has passed or is taking SC/BIOL 3150 3.00, SC/BIOL 3150 4.00.

Rationale:

Since BIOL 3150 3.0 and 4.0 are more advanced microbiology courses than SC/BIOL 2900, the notation of “NCR - No credit retained” will prevent a student from taking SC/BIOL 2900 3.0 for credit if they have previously completed SC/BIOL 3150 3.0 or 4.0.

SC/BIOL 3150 4.0 is being removed as a CCE for SC/BIOL 2900 3.0 as the content does not overlap enough for these courses to be considered equivalent.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised ‘Course Design’ and ‘Method of Instruction” information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 4390 3.0	**Effective Session:**	Fall 2026
Course Title:	Population Genetics		

Type of Change:

X	in pre-requisite(s)/co-requisite(s)		in cross-listing
	in course number/level		in degree credit exclusion(s)
	in credit value		regularize course (from Special Topics)
	in title (max. 40 characters for short title)		in course format/mode of delivery *
	in Calendar description (max. 40 words or 200		retire/expire course
	other (please specify):		

Change From:	**To:**
Course Description: The course focuses on theoretical and empirical population genetics and phenotypic evolution. Learning the underlying principles, students will generate, analyze and interpret population genetic data. Prerequisites: SC/BIOL 2040 3.00 or SC/BIOL 2040 4.00; SC/BIOL 2060 3.00.	**Course Description:** The course focuses on theoretical and empirical population genetics and phenotypic evolution. Learning the underlying principles, students will generate, analyze and interpret population genetic data. Prerequisites: SC/BIOL 2040 3.00 or SC/BIOL 2040 4.00; SC/BIOL 2060 3.00, SC/BIOL 3200 3.0

Rationale:

Addition of SC/BIOL 3200 3.0 (*Processes of Evolution*) will provide students with additional foundational background to succeed in SC/BIOL 4390 3.0.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 2030 3.0	**Effective Session:**	Fall 2026
Course Title:	Animals		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200	X	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**
Course Description: A study of the diversity of animals, their structure, physiology and evolution. Prerequisite: SC/BIOL 1000 3.00 and SC/BIOL 1001 3.00 or SC/ISCI 1110 6.00 or both SC/ISCI 1101 3.00 and SC/ISCI 1102 3.00. Course Credit Exclusion: SC/BIOL 2030 4.00.	**Course Description:** N/A

Rationale:

SC/BIOL 2030 3.0 was created during the pandemic when running labs was not possible. This course has not been offered since the Fall 2021 term (and there are currently no plans to offer it again) and so it will be expired.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 2050 4.0	**Effective Session:**	Fall 2026
Course Title:	Ecology		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200	X	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**
Course Description: A study of the interactions between organisms and their abiotic environments, presented in an evolutionary context. Includes processes of evolution, ecosystems and communities, competition, predation, population ecology and current environmental problems such as habitat loss and extinction. Prerequisite: Both SC/BIOL 1000 3.00 and SC/BIOL 1001 3.00, or SC/ISCI 1110 6.00, or both SC/ISCI 1101 3.00 and SC/ISCI 1102 3.00. Prerequisite or corequisite: SC/BIOL 2060 3.00.	**Course Description:** N/A

Rationale:

With the creation of the lab-based course SC/BIOL 2080 3.0 (*Ecology in Practice - Research Fundamentals in Ecology and Evolution*), SC/BIOL 2050 4.0 has been reduced to a 3.0 credit course. The there are no plans to offer the 4.0 credit version again and so this course will be expired.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 3003 2.0	**Effective Session:**	Fall 2026
Course Title:	Field Course		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200	X	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**
(Crosslisted to: SC/ENVB 3003 2.00) **Course Description:** This is a third field course, which may be taken for credit, the contents of which must differ materially from SC/BIOL 3001 2.00 or SC/BIOL 3001 3.00, and SC/BIOL 3002 2.00 or SC/BIOL 3002 3.00, as determined by the Instructor. The departmental brochure should be consulted for further details. One-week field course. Prerequisites: SC/BIOL 2050 4.00 and SC/BIOL 2060 3.00; plus other prerequisites if specified for a given module. Note: Students must be manually enrolled in this course through the Biology Department early in January or prior to the session in which the course is offered. Enrolment is not possible at any other time of year. In addition to the tuition fee levied by the University, each student must pay for transportation, room and board.	**Course Description:** N/A

Rationale:

The field courses have been recoded as 4000 level courses and so SC/BIOL 3003 2.0 will be expired.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 3003 3.0	**Effective Session:**	Fall 2026
Course Title:	Field Course		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200	X	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**
(Crosslisted to: SC/ENVB 3003 3.00) **Course Description:** This is a third field course, which may be taken for credit, the contents of which must differ materially from SC/BIOL 3001 2.00 or SC/BIOL 3001 3.00, and SC/BIOL 3002 2.00 or SC/BIOL 3002 3.00, as determined by the Instructor. The departmental brochure should be consulted for further details. Two-week field course. Prerequisites: SC/BIOL 2050 4.00 and SC/BIOL 2060 3.00; plus other prerequisites if specified for a given module. Note: Students must be manually enrolled in this course through the Biology Department early in January or prior to the session in which the course is offered. Enrolment is not possible at any other time of year. In addition to the tuition fee levied by the University, each student must pay for transportation, room and board.	**Course Description:** N/A

Rationale:

The field courses have been recoded as 4000 level courses and so SC/BIOL 3003 3.0 will be expired.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 3150 3.0	**Effective Session:**	Fall 2026
Course Title:	Microbiology		

Type of Change:

☐	in pre-requisite(s)/co-requisite(s)	☐	in cross-listing
☐	in course number/level	☐	in degree credit exclusion(s)
☐	in credit value	☐	regularize course (from Special Topics)
☐	in title (max. 40 characters for short title)	☐	in course format/mode of delivery *
☐	in Calendar description (max. 40 words or 200	X	retire/expire course
☐	other (please specify):	☐	

Change From:	**To:**
Course Description: Fundamentals of microbiology; microbial organisms; microbe-host interactions; microbial genetics and evolution; microorganisms and human disease; environmental and applied microbiology. Three lecture hours. One term. Three credits. Prerequisites: SC/BIOL 2020 3.00; SC/BIOL 2021 3.00; SC/BIOL 2040 3.00. Course credit exclusion: SC/BIOL 3150 4.00.	**Course Description:** N/A

Rationale:

SC/BIOL 3150 was offered during the pandemic due to in-person lab restrictions. Since students require the 4.0 credit version to fulfill their upper year lab requirements, there are currently no plans to offer the 3.0 credit version again so this course will be expired.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 4000 3.0	**Effective Session:**	Fall 2026
Course Title:	Honours Thesis		

Type of Change:

	in pre-requisite(s)/co-requisite(s)		in cross-listing
X	in course number/level	X	in degree credit exclusion(s)
	in credit value		regularize course (from Special Topics)
	in title (max. 40 characters for short title)		in course format/mode of delivery *
	in Calendar description (max. 40 words or 200	X	retire/expire course
	other (please specify):		

Change From:	**To:**
Crosslisted to: SC/ENVB 4000 3.00 **SC/BIOL 4000 3.00 Honours Thesis** **Course Description:** A substantial written thesis, including a literature review based on library investigations, under the supervision of a faculty member. Rules governing this course are outlined in the Department of Biology undergraduate handbook. Note: Open only to Honours students majoring in Biology, Environmental Biology or Environmental Science (life sciences stream) with at least 84 credits, and a Biology Major GPA of at least 6.00.	**Crosslisted to: SC/ENVB 4900 3.00** **SC/BIOL 4900 3.00 Honours Thesis** **Course Description:** A substantial written thesis, including a literature review based on library investigations, under the supervision of a faculty member. Rules governing this course are outlined in the Department of Biology undergraduate handbook. Note: Open only to Honours students majoring in Biology, Environmental Biology or Environmental Science (life sciences stream) with at least 84 credits, and a Biology Major GPA of at least 6.00. Course credit exclusion: SC/BIOL 4000 3.0.

Rationale:

At the request of the university registrar we are asked to create unique course codes for the two thesis courses. The SC/BIOL 4000 3.0 course will be expired.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty: FSc

Department:	Biology	**Date of Submission:**	Summer 2025
Course Number:	SC/BIOL 4000 3.0	**Effective Session:**	Fall 2026
Course Title:	Honours Thesis		

Type of Change:

	in pre-requisite(s)/co-requisite(s)		in cross-listing
	in course number/level	X	in degree credit exclusion(s)
	in credit value		regularize course (from Special Topics)
	in title (max. 40 characters for short title)		in course format/mode of delivery *
	in Calendar description (max. 40 words or 200		retire/expire course
	other (please specify):		

Change From:	**To:**
Crosslisted to: SC/ENVB 4000 3.00 **SC/BIOL 4000 3.00 Honours Thesis** **Course Description:** A substantial written thesis, including a literature review based on library investigations, under the supervision of a faculty member. Rules governing this course are outlined in the Department of Biology undergraduate handbook. Note: Open only to Honours students majoring in Biology, Environmental Biology or Environmental Science (life sciences stream) with at least 84 credits, and a Biology Major GPA of at least 6.00.	**Crosslisted to: SC/ENVB 4000 3.00** **SC/BIOL 4000 3.00 Honours Thesis** **Course Description:** A substantial written thesis, including a literature review based on library investigations, under the supervision of a faculty member. Rules governing this course are outlined in the Department of Biology undergraduate handbook. Note: Open only to Honours students majoring in Biology, Environmental Biology or Environmental Science (life sciences stream) with at least 84 credits, and a Biology Major GPA of at least 6.00. Course credit exclusion: SC/BIOL 4900 3.0.

Rationale:

At the request of the university registrar we are asked to create unique course codes for the two thesis courses. The SC/BIOL 4000 3.0 course will be recoded as SC/BIOL 4900 3.0. This change adds a CCE of SC/BIOL 4900 3.0 to the SC/BIOL 4000 3.0 course description so students are prevented from taking both for credit.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

FACULTY OF
SCIENCE

Science
Curriculum
Committee

AGENDA

Date: Tuesday, August 19 2025

Time: 9:00 am -Zoom

https://yorku.zoom.u

s/j/93511396985?pw

d=sfgp6RIzlKtbz81a1

GXSIZW2F4BRBG.1

Members: Professor Michael Scheid, Associate Dean of Students, Professors Jade Atallah, Michael Haslam, Ozzy Mermut, Lisa Robertson, Robin Metcalfe (chair), Derek Jackson, Paula Wilson, Student Representatives, Tina Barhagh and Elia Xhindole. Tina Reddi, Secretary.

1.1 Minutes of the meeting:

1.1.1 July 22 2025

1.2 MATH AND STATISTICS DEPARMENT:

1.2.1 Change in Calendar description: SC/MATH 1510 3.0 – Fundamentals of Mathematics

1.2.2 Change in Calendar description: SC/MATH 3700 3.0 – Mathematics Pedagogy Practicum

1.2.3 Change in Calendar description and pre-requisite(s): SC/MATH 4100A 3.0 – Topics in Mathematics Education: Theory and Practice

1.2.4 Change in Calendar description, pre-requisites, course number and in SC/MATH 41003.0A

1.2.5 Non-Major Modification: MATH 4100A 3.0 is a required course for all of these majors, but the course code is problematic and is being changed to MATH 4101.

These proposals were submitted by Professor Andrew McEachern, Associate Professor, Teaching.

Changes to Existing Course

Faculty:

Department:	Mathematics and Statistics	**Date of Submission:**	July 18, 2025
Course Number:	1510	**Effective Session:**	Fall 2026
Course Title:	Fundamentals of Mathematics		

Type of Change:

[ ]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[ ]	in course number/level	[x]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[ ]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[x]	in Calendar description (max. 40 words or 200 characters)	[ ]	retire/expire course
[ ]	other (please specify):	[ ]	

Change From:	**To:**
SC/MATH1510 6.00 Fundamentals of Mathematics Designed for the student whose mathematical background is weak and who wishes to take further courses in mathematics. Topics include algebraic equations and inequalities; simple sequences and series; analytic geometry; trigonometry; functions, including algebraic, exponential, logarithmic and trigonometric functions. Prerequisites: 11U Functions. NCR Note: May not be taken by any student who has taken or is currently taking another university course in mathematics or statistics including ECON 1530 3.00 and ECON 1540 3.00, except for SC/MATH 1520 3.00. Course credit exclusions: SC/MATH 1710 6.00, GL/ITEC/MATH/MODR 1670 6.00.	SC/MATH1510 6.00 Fundamentals of Mathematics Designed to strengthen foundational mathematics skills in preparation for further courses in mathematics that will assume effective mathematical communication, appropriate problem solving strategies, and confidence with exponential, logarithmic, trigonometric, polynomial and rational functions, sequences and series, inequalities, and analytic geometry. Prerequisites: 11U Functions or equivalent. NCR Note: May not be taken by any student who has taken or is currently taking another university course in mathematics or statistics, including GL/MATH 1670, 6.00, AP/ECON 1530 3.00, AP/ECON 1540 3.00. May be taken for credit concurrently with SC/MATH 1520 3.00. This course covers content from the Ontario 12U Advanced Functions course.

Rationale:	The calendar description is being modified to remove the mention of 'weak' students and to more accurately describe the intention and purpose of this course. The enrollment restrictions was rewritten to remove the mention of a previously retired course and to specify the three most common restricted courses for clarity. This is a housekeeping change.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty:

Department: Mathematics and Statistics

Date of Submission: July 18, 2025

Course Number: 3700

Effective Session: Fall 2026

Course Title: Mathematics Pedagogy Practicum

Type of Change:

[X]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[ ]	in course number/level	[ ]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[ ]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[x]	in Calendar description (max. 40 words or 200	[ ]	retire/expire course
[ ]	other (please specify):	[ ]	

Change From:	To:
This course provides opportunities for students to examine the teaching and learning of undergraduate mathematics and statistics in the context of individual and small group tutoring and reflect on their pedagogical practice. Students explore and apply modern pedagogical theories. Practicum includes 3 hours per week of volunteer work in an on-campus tutoring center and reflection on the experience. ~~Prerequisite. a minimum of 21 credits in SC/MATH courses without second digit "5".~~ Corequisite. SC/BC 3000 0.0 Introduction to Peer Leadership.	This course provides opportunities for students to examine the teaching and learning of undergraduate mathematics and statistics in the context of individual and small group tutoring and reflect on their pedagogical practice. Students explore and apply modern pedagogical theories. Practicum includes 3 hours per week of volunteer work in an on-campus tutoring center and reflection on the experience. Prerequisite. a minimum of 18 credits in SC/MATH courses without second digit "5". Corequisite. SC/BC 3000 0.0 Introduction to Peer Leadership.

Rationale:

The way the math for education minor is constructed makes it impossible for students in the minor to take 3700. Reducing the number of credits from 21 to 18 allows those students to take 3700 and complete the minor.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty:

Department:	Mathematics and Statistics	**Date of Submission:**	July 18, 2025
Course Number:	4100A	**Effective Session:**	Fall 2026
Course Title:	Topics in Mathematics Education: Theory and Practice		

Type of Change:

[X]	in pre-requisite(s)/co-requisite(s)	[ ]	in cross-listing
[ ]	in course number/level	[ ]	in degree credit exclusion(s)
[ ]	in credit value	[ ]	regularize course (from Special Topics)
[ ]	in title (max. 40 characters for short title)	[ ]	in course format/mode of delivery *
[x]	in Calendar description (max. 40 words or 200	[ ]	retire/expire course
[ ]	other (please specify):	[ ]	

Change From:	**To:**
Provides opportunities for students to examine topics in mathematics, and themes in mathematics education. The main focus will be on developing students' ability to unpack and communicate concepts in mathematics, and to think critically about what mathematicians do and what students do when they are learning mathematics. Prerequisites: ~~A minimum of 21 credits in SC/MATH courses without second digit "5"; permission of the course coordinator.~~	Provides opportunities for students to examine topics in mathematics, and themes in mathematics education. The main focus will be on developing students' ability to unpack and communicate concepts in mathematics, and to think critically about what mathematicians do and what students do when they are learning mathematics. Prerequisites: A minimum of 18 credits in SC/MATH courses without second digit "5"; permission of the course coordinator.

Rationale:

The way the math for education minor is constructed makes it impossible for students in the minor to take 4100A. Reducing the number of credits from 21 to 18 allows those students to take 4100A and complete the minor.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Changes to Existing Course

Faculty:

Department: Mathematics and Statistics

Date of Submission: July 18, 2025

Course Number: 4100A

Effective Session: Fall 2026

Course Title: Topics in Mathematics Education: Theory and Practice

Type of Change:

X	in pre-requisite(s)/co-requisite(s)		in cross-listing
x	in course number/level		in degree credit exclusion(s)
	in credit value		regularize course (from Special Topics)
x	in title (max. 40 characters for short title)		in course format/mode of delivery *
x	in Calendar description (max. 40 words or 200		retire/expire course
	other (please specify):		

Change From:	**To:**
Course Number/Title: 4100A: Topics in Mathematics Education~~:~~ ~~Theory and Practice~~ **Prerequisites:** Provides opportunities for students to examine topics in mathematics, and themes in mathematics education. The main focus will be on developing students' ability to unpack and communicate concepts in mathematics, and to think critically about what mathematicians do and what students do when they are learning mathematics. Prerequisites: ~~A minimum of 21 credits in SC/MATH courses without second digit "5"; permission of the course coordinator.~~	**Course Number/Title:** 4101: Topics in Mathematics Education **Prerequisites:** Provides opportunities for students to examine topics in mathematics, and themes in mathematics education. The main focus will be on developing students' ability to unpack and communicate concepts in mathematics, and to think critically about what mathematicians do and what students do when they are learning mathematics. Prerequisites: A minimum of 18 credits in SC/MATH courses without second digit "5"; permission of the course coordinator.

Rationale:

The course title and number:

The original 4100A numbering had a course variation problem. The title has been simplified.

Prerequisites:

The way the math for education minor is constructed makes it impossible for students in the minor to take 4100A. Reducing the number of credits from 21 to 18 allows those students to take 4100A and complete the minor.

Note: For course proposals involving cross-listings, integrations and degree credit exclusions, approval from all of the relevant Faculties/department is required.

Note: Since one change (such as a change in year level or credit value) may result in several other changes (e.g., to the course description, evaluation, instruction, bibliography, etc.), please submit as many details as possible. If there are several changes, please feel free to use a New Course Proposal Form in order to ensure that all the required information is included.

* Note: If there is a technology component to the course, a statement is required from ATS indicating whether resources are adequate to support the course. Courses converted from face-to-face to an on-line delivery mode should follow the instructions provided on page 4 of the New Course Proposal Form to provide revised 'Course Design' and 'Method of Instruction" information.

Program: BA and BSc. Mathematics for Education Programs
Degree Program: Please Select Applicable Degree Program
Specialized Honours x Honours x Ordinary (90-credit) x Double Major x Major/Minor x Minor x
Other:
Effective Date: Fall 2026

Please note that only those fields applicable to the relevant program need to be completed.

Current Calendar Copy (~~Strikethrough~~ items to be removed)	New Calendar Copy (Underline items to be added in revisions to existing programs)
Admission Requirements **Current Students**	**Admission Requirements** **Current Students**
Continuing Requirements • *GPA requirements*	**Continuing Requirements**
Graduation Requirements	**Graduation Requirements**
General Education – Required Credits: __	**General Education** – Required Credits: __
Major Requirements – Required Credits: __ Passed the following: ED/EDST1000 - What Is Education For? (3.00) SC/MATH2041 - Symbolic Computation Laboratory I (3.00) SC/MATH3054 - Geometries and Education (3.00) SC/MATH3700 - Mathematics Pedagogy Practicum (3.00) ~~SC/MATH4100A - Topics in Mathematics Education: Theory and Practice (3.00)~~ SC/MATH4401 - The History of Mathematics (3.00)	**Major Requirements** – Required Credits: __ Passed the following: ED/EDST1000 - What Is Education For? (3.00) SC/MATH2041 - Symbolic Computation Laboratory I (3.00) SC/MATH3054 - Geometries and Education (3.00) SC/MATH3700 - Mathematics Pedagogy Practicum (3.00) SC/MATH4101 - Topics in Mathematics Education (3.00) SC/MATH4401 - The History of Mathematics (3.00)

Streams – Required Credits: __	**Streams** – Required Credits: __
Science Breadth – Required Credits: __	**Science Breadth** – Required Credits: __
Practical – Required Credits: __	**Practical** – Required Credits: __
Outside the Major – Required Credits: __	**Outside the Major** – Required Credits: __
Elective – Required Credits: __	**Elective** – Required Credits: __
Bilingual Requirement	**Bilingual Requirement**
Upper-Level Requirement	**Upper-Level Requirement**

Additional Comments/Notes • *Minimum GPA requirements* • *Other special notes*	**Additional Comments/Notes**
Grand Total Credit Count -	**Grand Total Credit Count -**

Please use the checklist to ensure that your submission has includes the following items:

- ☐ Relevant areas of Calendar Copy (Or complete if new proposal)
- ☐ Courses – Please Ensure the following:
  - All courses have an '**Active Status**'
  - Written Faculty Associations for each course
  - Correct Credit Value
  - Correct Course Rubric
  - Correct Course Number
  - Cross-listings (If applicable)
  - Integrations (only if application)
  - Confirmed updated information on courses / listings offered by another Faculty
- ☐ Effective Date
- ☐ All Degree Designation (s) / Credential (s) Changes clearly indicated for changes / new proposals
  - Please use a separate template for each degree designation for clarity purposes
- ☐ You have referenced the Current Published Academic Calendar
- ☐ Grand Total Credit Count Reflection (Equals the approved amount of credits required for graduation, for e.g., Grand Total Credit Count = 90 credits, etc.)
- ☐ Category Credit Values Requirements Clearly Outlined
- ☐ Supporting Documentation

<u>Types of Requirements:</u>

1) Admission Requirements:

Future Student: This is a generic text which will not be edited.

Current Students: This is the type for requirement that a currently enrolled student will need to get admitted into the program.

2) Continuing Requirements: This is the type of requirement that a student is required to stay enrolled in the program.
3) Graduation Requirements: This is the type of requirements that a student needs to complete to achieve that degree program.
4) General Education: The student is required to fulfill a specific number of courses from general education categories.
5) Major Requirements: A structured set of courses specifically designated for inclusion in the undergraduate program requirements, either mandatory or among a list of options for students to choose. May include or be in addition to core courses.
   a. Core Courses: Mandatory specified courses within an undergraduate program that provide a solid theoretical foundation and / or convey a common body of disciplinary knowledge and skills.
6) Streams – A structured set of courses with a particular focus within an Honours undergraduate degree program, to provide additional depth within the Major. Appears on the academic transcript but does not appear on the degree parchment.
7) Science Breath – Specific to the Faculty of Science and Faculty of Health
8) Practical – Practical requirements that a student needs to complete.
9) Outside the Major – This is the type of requirement that a student needs to complete with courses listed outside of the major program.

10) Elective – Also referred to as Free electives. Course(s) outside the prescribed set of program requirements, chosen by students and which count towards the total number of credits required for the degree
11) Bilingual – This is the type of language requirement that a student needs to fulfill within the above-mentioned credits (General Education, Major Requirements, etc).
12) Upper-level Requirement – This is the type of requirement that clearly states from the above-mentioned requirements, how many need to be from the 3000 and/ or 4000 level.