COUNCIL OF THE FACULTY OF SCIENCE

NOTICE OF MEETING

November 8, 2022
3pm – 4:30pm
LUM 306 & Zoom

AGENDA

1. Call to Order and Approval of Agenda
2. Chair’s Remarks
3. Approval of October 11, 2022 Minutes
4. Business Arising
5. Inquiries and Communications
   > October 27, 2022 Senate Synopsis
6. Dean’s Remarks
7. Associate Dean and Head of Bethune College Remarks
8. Reports from Science Representatives on Senate Committees
9. Report from Student Caucus Representative
10. Reports from Standing Committees of Council
    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) Curriculum Committee:
        > consent agenda items
11. Other Business
    a) VPRI Strategic Research Plan – Amir Asif, Vice-President Research & Innovation
MINUTES

1. Call to Order and Approval of Agenda
   T. Kirchner, Chair of Council called the meeting to order and a motion was moved, seconded and carried to approve the Agenda as presented.

2. Chair’s Remarks
   There were none.

3. Approval of September 13, 2022 Minutes
   A motion was moved, seconded and carried to approve the Minutes.

4. Business Arising
   There was none.

5. Inquiries and Communications
   > September 22, 2022 Senate Synopsis
   Council members noted the Senate Synopsis of meeting held on September 22, 2022.

6. Dean’s Remarks
   Dean Wang gave a special welcome to the 7 new Faculty members:
   Kohitij Kar, Daniela Monaldi, Gloria Orchard, Kelly Ramsey, Sarah Rugheimer, Alyssa Lumley and Jennifer van Wijngaarden.

   Dean Wang congratulated Faculty members with new publications and award and research grant recipients and encouraged members of council to learn more in the Dean’s Round Up.

   Highlights:
   The Ontario University Fair returned to in person. Dean Wang thanked the dedicated recruitment and strategic engagement team, faculty and staff for volunteering and representing York University.

   Update:
   Community 2022, a new transition plan created to enable and support return to in person teaching is launching in the 2022-23 academic year based on the feedback from survey previously circulated to the Science community in August. A new website and calendar will act as a central hub for this important initiative. The seven areas of focus:
1. Social reconnection.
2. Support for a return to more robust in person teaching.
3. Seminars to help with transitions to on campus, hybrid and remote working.
4. Support for mental and physical wellbeing.
5. Initiatives to welcome new community members.
6. Seminars providing overview of research services support.
7. Improvement to the physical environment.

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

**Associate Dean Faculty Affairs, G. Audette:**
Welcomed faculty members returning from sabbatical and gave a reminder that sabbatical reports are due November 1, 2022.

**Associate Dean Students, M. Scheid:**
Fall Campus Day is scheduled for November 19 in person, please send details and presentations to the Strategic Engagement team by October 24 deadline.

Academic Integrity Week organized by the Office of the Vice-Provost Academic kicked off on October 4.

Attending Physician Statements are still not required for students until disruptions are finished.

Ongoing discussion with University Information Technology about various complaints received from the Faculty of Science – an update will hopefully be given in November.

**Associate Dean Research & Partnerships, V. Saridakis:**
NSERC, RTI and Discovery Grant deadlines are approaching – please submit applications as soon as possible.

‘Where Is the Pandemic Heading?’ an event with presentations from mathematical modelling researchers, followed by a panel discussion is scheduled for Monday October 17 in a hybrid format. Invitations will be sent out soon.

**Associate Dean Curriculum and Pedagogy, H. Kouyoumdjian:**
The Committee on Teaching & Learning, is planning to host book/journal clubs, and other initiatives like workshops and seminars.

Starting next semester, all teaching and learning initiatives will be announced via a monthly or bi monthly newsletter, this will keep things structured and include all information in one central place.

**T. Kircher on behalf of Head of Bethune College P. Wilson:**
Science Student Caucus are completed now; 48 candidates were nominated for 20 positions and are expected to attend the November Faculty Council meeting.

There was a low voting turn out, 149 students voted of the 4271 eligible voters (3.5%).

8. **Reports from Science Representatives on Senate Committees**
There was none.
9. Report from Student Caucus Representative
   There was none.

10. Reports from Standing Committees of Council
   a) Executive Committee:
      > Ratification and Call for Nominations for Senate and Standing Committee of Council
         A motion was moved, seconded and carried to ratify all nominations to the Standing Committees of Council.
      > Vacancies report on the Standing Committees of FSc Council
         T. Kirchner noted the vacancies that remain.
   b) Curriculum Committee:
      > consent agenda items

11. Other Business
   a) Non-Degree Program Approval Process (for information) – Rui Wang
      Dean Wang explained the administrative process for Non-Degree Program Approval.

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

Tianna McFarlane
Wendy Booth
Maggie Xu
Gerald Audette
Brad Sheeller (non-voting guest)
Rui Wang
Patricia Lakin-Thomas
Jerusha Lederman
Hovig Kouyoumdjian
Neal Madras
Helen McLellan
Tom Kirchner
Robin Metcalfe
Stephanie Domenikos
Almira Mun
Kathy Young
Nik Kovinich
Vivian Saridakis
melissa hughes
Jennifer van
Wijngaarden
Mike Scheid

Nicole Nivillac
Helen Abraham
Robert McLaren
Sibonile Siyakatshana
Jill Lazenby
Pat Hall
Tom Salisbury
The 689th Meeting of Senate held on Thursday, October 27, 2022 via Zoom

Remarks

The Chair of Senate, Professor Mario Roy of Glendon College, welcomed Senators to the meeting.

President Rhonda Lenton reported on the following items:

- efforts being made towards the development of a new framework for the sustainability strategy, including expanding York’s Office of Sustainability, hiring a Chief Sustainability Officer and establishing a new million-dollar fund for Sustainability Innovation

- preliminary 2022-2023 enrolment numbers, reflecting York’s return to its historic market share as well as ongoing challenges impacting enrolment such as the impact of the pandemic on the international student market

- external developments related to post-secondary education, which include waiting for the final report of the Auditor General of Ontario on Laurentian University, expectations of a challenging financial context over the next few years and ongoing pandemic-related challenges

The monthly “Kudos” report on the achievements of members of the York community can be accessed with other documentation for the meeting.

Inquiries and Communications

A written report from the Academic Colleague to the Council of Ontario Universities, Senator William van Wijngaarden, was circulated with the agenda. Senator van Wijngaarden sent regrets for this meeting but will respond to any questions at the November meeting.

Approvals

Senate approved the recommendations of its Academic Standards, Curriculum and Pedagogy Committee to:
The Senate of York University Synopsis

- establish a Type 2 and 3 Diploma in Global Metals and Minerals Management in the Schulich School of Business, effective FW2023-2024
- approve the establishment of a Professional Certificate in Educational Development in the Faculty of Education, effective FW2023-2024
- approve the establishment of a Disciplinary Certificate in Counselling and Mental Health in the Department of Psychology, Faculty of Health, effective FW2023-2024
- approve the establishment of a Field in Sustainability within the PhD program in Administration in the Schulich School of Business, effective FW2023-2024.

Senate Elections

Senate approved a slate of candidates presented by the Executive Committee with the result that a number of individuals were acclaimed to positions on Senate committees.

Facilliated Discussion

The Academic Standards, Curriculum and Pedagogy Committee, along with the Senate Appeals Committee, sought the input of Senate through a facilitated discussion on whether, based on Senators’ experiences with investigations and adjudication of academic honesty/misconduct cases, the central features of the new draft Academic Conduct Policy and Procedures represent process improvements and/or whether there are any material measures or considerations that warrant further exploration.

Committee Information Reports

Executive Committee

Information items included the following:

- its ongoing monitoring of the pandemic disruption, with discussions commencing on the matter of the timing to declare the disruption ended
- its approval of Senate Committee members nominated by Faculty Councils
- the results of the election for the contract faculty seat for a one-year term on the Senate Academic Standards Curriculum and Pedagogy Committee for 2022-2023
- preliminary discussion of its priorities for 2022-2023
- a consolidated report on actions taken by Senate in 2021-2022
The Senate of York University Synopsis

Academic Policy, Planning and Research Committee (APPRC)

On behalf of the Committee, the Chair shared updates on the information items outlined in the written report.

Academic Standards, Curriculum and Pedagogy Committee (ASCP)

On behalf of the Committee, the Chair spoke to the information items covered in the written report.

Additional Information about this Meeting

Please refer to the full Senate agenda and supplementary material posted online with the October 27, 2022 meeting for details about these items.

https://www.yorku.ca/secretariat/senate/meeting-agendas-and-synopses/

October Meeting of Senate

Senate’s next meeting will be held at 3:00 pm on Thursday, November 24, 2022.
2022-2023 FSc Report on vacancies for Senate and FSc Standing Committees of Council

Executive Committee 2022-23

RATIFICATION OF NOMINATIONS

Undergraduate Student Nominations for 2022-2023 Faculty Council

Ahmer Mohiuddin
Alan Jia
Aleeza Qayyum
Ali Bashar
Areeba Chaudhry
Ayesha Ahmad
Claire Del Zotto
Ebadullah Kabir
Elana Dhaigham
Jarred Laganas
Julia Tersigni
Karina Kofman
Madeline Blanco
Richi Rohra
Sameen Ali
Sarah Damiani
Stephanie Sansone
Taline Apelian-Sutor
Yashna Manek
Zahra Zeinolabedin Rafi

Graduate Student Nominations for 2022-2023 Faculty Council

Nicholas Bragagnolo, Department of Chemistry, (term until 2023)
Andrea Angelucci, Department of Chemistry (term until 2023)

Committee on Equity, Diversity & Inclusion
Nicholas Bragagnolo, Department of Chemistry, (term until 2023)

Committee on Teaching and Learning
Gabriella Gerzon, Department of Biology (term until 2023)
J. Atallah, Department of Biology (term until 2023)

Graduate Curriculum Committee
Farnaz Mansouri-Noori, Department of Biology (term until 2025)
Research & Awards Committee
Andrea Angelucci, Department of Chemistry (term until 2023)
According to the York University (excluding 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.

### Senate

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<tr>
<th>Role</th>
<th>Name</th>
<th>From</th>
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<tr>
<td>Dean, Ex officio</td>
<td>R. Wang</td>
<td>2022</td>
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<td>Member at large</td>
<td>A. Audette</td>
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<td>Member at large</td>
<td>C. van Willigen, Chemistry</td>
<td>2021</td>
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<td>Member at large</td>
<td>J. Lazenby, Department of Biology</td>
<td>2022</td>
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<td>Member at large</td>
<td>R. Tsushima, Department of Biology</td>
<td>2021</td>
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<td>Member at large</td>
<td>S. Watson, Department of Mathematics &amp; Statistics</td>
<td>2022</td>
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<td>Member at large</td>
<td>V. Saridakis, Biology</td>
<td>2021</td>
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<td>Member at large</td>
<td>VACANT, Physics &amp; Astronomy</td>
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<td>Member at large</td>
<td>VACANT, Mathematics &amp; Statistics</td>
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<tr>
<td>Member at large</td>
<td>R. Pavri, Department of Science, Technology &amp; Society</td>
<td>2021</td>
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<td>Director of NAITS</td>
<td>R. Metcalfe</td>
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<td>Student representative</td>
<td>Yashna Manek</td>
<td>2021</td>
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<td>Student representative</td>
<td>Ailiya Rizwan</td>
<td>2021</td>
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**Term:**

- **Chair of Council:** T. Kirchner (2022-2023)
- **Vice-Chair of Council:** N. Kovinich (2022-2023)
- **Dean, Ex officio:** R. Wang
- **Asst. Dean - SEM & SEP:** A. Mun
- **Staff representative:** W. Booth (2022-2023)
- **Undergraduate Student Rep:** VACANT (2022-2023)
- **Biology:** D. Golemi-Kotra (2020-2023)
- **Chemistry:** D. Wilson (2022-2025)
- **Math & Stats:** E. J. Janse Van Rensburg (2022-2025)
- **Physics & Astronomy:** C. Storry (2022-2023)
- **STS:** C. Douglas (2021-2023)

**Standing Committees**

- **Senate Executive:** 1 member from FSc
  - **G. Audette:** 2021-2024
- **Academic Policy, Planning and Research Committee (APPRC):** 1 member from FSc
  - **D. Golemi-Kotra:** 2020-2023
- **Academic Standards, Curriculum and Pedagogy Committee:** 1 member from FSc
  - **Mary-Helen Armour:** 2021-2024
- **Sub-Committee on Honorary Degrees & Ceremonials:** 1 member from FSc
  - **T. Kirchner:** 2022-2023

**Faculty Council**

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<tr>
<td>Dean, Ex officio</td>
<td>R. Wang</td>
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<td>Asst. Dean - SEM &amp; SEP</td>
<td>A. Mun</td>
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<td>W. Booth</td>
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<td>Physics &amp; Astronomy</td>
<td>E. Hessels</td>
<td>2022</td>
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<td>STS</td>
<td>S. Domenikos</td>
<td>2022</td>
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**Standing Committees**

- **Executive Committee:**
  - **Chair of Council:** T. Kirchner (2022-2023)
  - **Vice-Chair of Council:** N. Kovinich (2022-2023)
  - **Dean, Ex officio:** R. Wang
  - **Staff representative:** W. Booth (2022-2023)
  - **Undergraduate Student Rep:** VACANT (2022-2023)
  - **Biology:** E. J. Janse Van Rensburg (2022-2025)
  - **Chemistry:** D. Wilson (2022-2025)
  - **Math & Stats:** P. Sargent (2022-2025)
  - **Physics & Astronomy:** E. Hessels (2022-2023)
  - **STS:** S. Domenikos (2022-2025)

- **APPC:**
  - **Associate Dean, Faculty Affairs, Ex officio:** Designated
  - **Head of Bantoni College:** F. Wilson (Designated)
  - **Undergraduate Student Representative:** VACANT (2022-2025)
  - **Elected staff representative:** N. K. (2022-2023)
  - **Biology:** VACANT (2022-2025)
  - **Chemistry:** E. Capasso (2022-2025)
  - **Math & Stats:** T. Sangerl (2022-2025)
  - **Physics & Astronomy:** E. Hessels (2022-2023)
  - **STS:** S. Domenikos (2022-2025)

- **Undergraduate Curriculum Committee:**
  - **Associate Dean, Students, Ex officio:** Designated
  - **Chair or nominee from each teaching Division or Department:**
  - **Member at Large:** VACANT (2022-2025)
  - **Member at Large:** VACANT (2022-2025)
  - **Member at Large:** Designated
  - **Associate Dean - Students, Ex officio:** Designated
  - **Undergraduate Student Rep:** VACANT (2022-2025)
  - **Biology:** V. Vicari (2022-2025)
  - **Chemistry:** M. Vicari (2022-2025)
  - **Math & Stats:** M. Vicari (2022-2025)
  - **Physics & Astronomy:** M. Vicari (2022-2025)
  - **STS:** R. Metcalfe (2022-2025)
### Committee on Research & Awards

The Committee on Research and Awards shall consist of one member elected by Council from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy and Science and Technology Studies/Natural Science, and one student member of Council. CEAS will normally meet every alternate Wed. / Thurs from 100 - 1100 pm year round.

- **Associate Dean - Research & Partnerships**, ex officio
- **Graduate Student Representative**: C. Bergevin (Fall), B. Radics (Winter)
- **Committee A: E. Hyde (Winter)**, **Committee B: Randy Lewis (Winter)**

### SRC T & P Committee

The 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

- **Chair**: VACANT
- **Members at Large**: E. Hyde / ALT VACANT 2022 2023
- **Biology**: F. Gozi / ALT Zahir M. Wali 2022 2023
- **Physics & Astronomy**: S. Jerzak (Fall) , G. Orchard (Fall)

### CoTL

The Committee on Teaching and Learning shall consist of a minimum of four 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.

- **Chair**: C. Jang
- **Committee A: S. Jerzak (Fall) , Committee B: G. Orchard (Fall)**

### 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 voting faculty members and one student member or (b) three voting faculty members.

- **Chair**: E. Hyde
- **Members at Large**: T. Zeng

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#### Notes

- Each panel meets once a month on Wednesday or Thursday from 2:30 pm - 4:00 pm.
- SRC T & P Committee normally meets every Monday of each month (September to May) from 9:00 am - 11:00 am in LUM 305B.
- CoTL normally meets every third Thursday of each month (September to May) from 10:00 am - 11:30 am.
- The Research & Awards Committee will meet when grants and awards need to be adjudicated.
### Graduate Curriculum Committee

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<th>Position</th>
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<tbody>
<tr>
<td>Associate Dean - Research &amp; Graduate Education (ex officio)</td>
<td>M. Scheid</td>
<td>2020</td>
<td>2023</td>
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<tr>
<td>Biology</td>
<td>B. Stutchbury</td>
<td>2022</td>
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<td>R. McLaren</td>
<td>2020</td>
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<td>Physics &amp; Astronomy</td>
<td>M. Johnson</td>
<td>2020</td>
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<td>Math &amp; Stats</td>
<td>D. Higginboth</td>
<td>2020</td>
<td>2023</td>
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<td>Member from Faculty of Health OR Lassonde School of Engineering</td>
<td>VACANT</td>
<td>2021</td>
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<td>Member at Large</td>
<td>VACANT</td>
<td>2022</td>
<td>2025</td>
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<tr>
<td>Graduate student</td>
<td>Farnaz Mansouri-Noori</td>
<td>2022</td>
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Meeting is held based on availability.

### Committee on Equity, Diversity & Inclusivity (EDI)

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<th>Position</th>
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<tr>
<td>Associate Dean - Faculty, ex officio</td>
<td>G. Audette</td>
<td>2022</td>
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<td>Vivian Saridakis</td>
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<td>2020</td>
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<td>Math &amp; Stats</td>
<td>M. Woldegerima</td>
<td>2022</td>
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<td>M3</td>
<td>T. Fei</td>
<td>2020</td>
<td>2023</td>
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Meeting is held the last Wednesday of every month.

### 2022-2023 FSc Report on vacancies for Senate and FSc Standing Committees

- **Committee Rules of Faculty Council - membership**
- **Meeting time / Membership**
- **Terms**

#### 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 approval at the Faculty-level
- The Chair of the Committee is selected by the voting members of the Committee for a one-year term.

#### Committee on Equity, Diversity & Inclusivity (EDI)
- 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 from 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 & Graduate Education (ex officio)
  - One primary and one alternate member from each of Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy and Science & Technology Studies.
  - 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.
The Faculty of Science Curriculum Committee has reviewed proposals for changes to course information and degree requirements and recommends to the Executive Committee that the following changes be submitted to Council for approval.

Details regarding these proposals (and other minor changes to Calendar/Repository course descriptions and prerequisites which were approved by the Committee but are not reported here) are included in the working papers of October 21, 2022, meeting of the Curriculum Committee, which are on file for your inspection in the Office of the Dean, with all members of the Curriculum Committee or by contacting the Secretary of the Committee at scicurri@yorku.ca

1) BIOLOGY
a) Change in prerequisites: SC/BIOI 3171 3.0 – Population Ecology
b) Change in prerequisites: SC/BIOI 3172 3.0 – Community Ecology
c) Change in prerequisites: SC/BIOI3500 3.0 - Biogeography
d) Change in prerequisites: SC/BIOI 4095 3.0 Applied Plant Ecology
e) Change in prerequisites: SC/BIOI 4245 – Conservation Biology
f) Change in prerequisites: SC/BIOI 4250 3.0 – Birds and the Environment
g) Change in prerequisites: SC/BIOI 4265 3.0 – Biology in Environmental Management
h) Change in prerequisites: SC/BIOI 4400 3.0 – Behavioral Genetics
(submitted by Prof. Nicole Nivillac)

2) NATURAL SCIENCE
a) Change in Course Credit Exclusion: SC/NATS 1690 6.0 – Evolution
b) Change in Course Credit Exclusion: SC/NATS 1660 6.0 – The Biology of Sex
(submitted by Prof. Robin Metcalf)
Changes to Existing Course

Faculty: FSc
Department: Biology
Date of Submission: August 26, 2022
Course Number: BIOL 3171 3.0
Effective Session: Fall 2023
Course Title: Population Ecology

Type of Change:

- [X] in pre-requisite(s)/co-requisite(s)
- [ ] in course number/level
- [ ] in credit value
- [ ] in title (max. 40 characters for short title)
- [ ] in Calendar description (max. 40 words or 200 characters)
- [ ] other (please specify): 

Change From:
Prerequisites: SC/BIOL 2050 4.00 and SC/BIOL 2060 3.00
Course Credit Exclusion: SC/BIOL 3170 3.00.

To:
Prerequisites: SC/BIOL 2050 4.00 or SC/BIOL 2050 3.0 and SC/BIOL 2060 3.00 Course Credit Exclusion: SC/BIOL 3170 3.00.
Rationale: BIOL 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (BIOL 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken BIOL 2050 3.0 to enroll in BIOL 3171 without needing permission from the biology undergraduate office.

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:** August 26, 2022  
**Course Number:** BIOL 3172 3.0  
**Effective Session:** Fall 2023  
**Course Title:** Community Ecology

## Type of Change:

- [x] in pre-requisite(s)/co-requisite(s)  
- [ ] in course number/level  
- [ ] in credit value  
- [ ] in title (max. 40 characters for short title)  
- [ ] in Calendar description (max. 40 words or 200 characters)  
- [ ] other (please specify):

## Change From:

Prerequisites: SC/BIOL 2050 4.00 and SC/BIOL 2060 3.00  
Course Credit Exclusion: SC/BIOL 3170 3.00.

## To:

Prerequisites: SC/BIOL 2050 4.00 or SC/BIOL 2050 3.0 and SC/BIOL 2060 3.00 Course Credit Exclusion: SC/BIOL 3170 3.00.
Rationale: SC/BIOL 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/BIOL 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/BIOL 2050 3.0 to enroll in SC/BIOL 3172 without needing permission from the biology undergraduate office.

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:** August 26, 2022  
**Course Number:** BIOL 3500 3.0  
**Effective Session:** Fall 2023  
**Course Title:** Biogeography

**Type of Change:**
- [x] in pre-requisite(s)/co-requisite(s)
- [ ] in course number/level
- [ ] in credit value
- [ ] in title (max. 40 characters for short title)
- [ ] in Calendar description (max. 40 words or 200 characters)
- [ ] other (please specify):

**Change From:**
Prerequisite: AP/GEOG 2500 3.00 or SC/GEOG 2500 3.00 or SC/BIOL 2050 4.00.

**To:**
Prerequisite: AP/GEOG 2500 3.00 or SC/GEOG 2500 3.00 or SC/BIOL 2050 4.00 or SC/BIOL 2050 3.0.
Rationale: SC/Biol 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/Biol 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/Biol 2050 3.0 to enroll in SC/Biol 3500 without needing permission from the biology undergraduate office.

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: August 26, 2022

Course Number: BIOL 4095 3.0  
Effective Session: Fall 2023

Course Title: Applied Plant 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 characters)  ☐ retire/expire course

☐ other (please specify):

Change From:

Prerequisite: SC/BIOL 2050 4.00 or permission of the Instructor; SC/BIOL 4090 4.00 is recommended.

To:

Prerequisite: SC/BIOL 2050 4.00 or SC/BIOL 2050 3.0 or permission of the Instructor; SC/BIOL 4090 4.00 is recommended.
Rationale: SC/Biol 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/Biol 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/Biol 2050 3.0 to enroll in SC/Biol 4095 without needing permission from the biology undergraduate office.

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:** August 26, 2022  
**Course Number:** BIOL 4245 3.0  
**Effective Session:** Fall 2023  
**Course Title:** Conservation Biology  

### Type of Change:

- [x] in pre-requisite(s)/co-requisite(s)  
- [ ] in course number/level  
- [ ] in credit value  
- [ ] in title (max. 40 characters for short title)  
- [ ] in Calendar description (max. 40 words or 200 characters)  
- [ ] other (please specify):  

### Change From:

Prerequisites: SC/BIOL 2050 4.00, SC/BIOL 2060 3.00.

### To:

Prerequisites: SC/BIOL 2050 4.00 or BIOL 2050 3.0 and SC/BIOL 2060 3.00
Rationale: SC/Biol 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/Biol 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/Biol 2050 3.0 to enroll in SC/Biol 4245 without needing permission from the biology undergraduate office.

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:** August 26, 2022  
**Course Number:** BIOL 4250 3.0  
**Effective Session:** Fall 2023  
**Course Title:** Birds and the Environment

**Type of Change:**

- [x] in pre-requisite(s)/co-requisite(s)  
- [ ] in course number/level  
- [ ] in credit value  
- [ ] in title (max. 40 characters for short title)  
- [ ] in Calendar description (max. 40 words or 200 characters)  
- [ ] other (please specify):

**Change From:**  
Prerequisites: SC/BIOL 2050 4.00, SC/BIOL 2060 3.00.

**To:**  
Prerequisites: SC/BIOL 2050 4.00 or BIOL 2050 3.0 and SC/BIOL 2060 3.00
Rationale: SC/Biol 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/Biol 2080 3.0 - Ecology in Practice: Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/Biol 2050 3.0 to enroll in SC/Biol 4250 without needing permission from the biology undergraduate office.

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: August 26, 2022  
Course Number: BIOL 4265 3.0  
Effective Session: Fall 2023  
Course Title: Biology in Environmental Management

Type of Change:

- [x] in pre-requisite(s)/co-requisite(s)
- [ ] in course number/level
- [ ] in credit value
- [ ] in title (max. 40 characters for short title)
- [ ] in Calendar description (max. 40 words or 200 characters)
- [ ] other (please specify):

<table>
<thead>
<tr>
<th>Change From:</th>
<th>To:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites: SC/BIOL 2050 4.00, SC/BIOL 2060 3.00.</td>
<td>Prerequisites: SC/BIOL 2050 4.00 or BIOL 2050 3.0 and SC/BIOL 2060 3.00</td>
</tr>
</tbody>
</table>
Rationale: SC/Biol 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/Biol 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/Biol 2050 3.0 to enroll in SC/Biol 4265 without needing permission from the biology undergraduate office.

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:** August 26, 2022

**Course Number:** BIOL 4400 3.0  
**Effective Session:** Fall 2023  
**Course Title:** Behavioral Genetics

### Type of Change:

- [x] in pre-requisite(s)/co-requisite(s)
- [ ] in course number/level
- [ ] in credit value
- [ ] in title (max. 40 characters for short title)
- [ ] in Calendar description (max. 40 words or 200 characters)
- [ ] other (please specify):

### Change From:

Prerequisites: SC/BIOL 2040 3.00; SC/BIOL 2050 4.00; SC/BIOL 2060 3.00; SC/BIOL 3200 3.00.

### To:

Prerequisites: SC/BIOL 2040 3.00; SC/BIOL 2050 4.00 or SC/BIOL 2050 3.00; SC/BIOL 2060 3.00; SC/BIOL 3200 3.00.
Rationale: SC/Biol 2050 has been amended to a 3.0 credit version due to removal of the lab component and the creation of a separate laboratory based course (SC/Biol 2080 3.0 - Ecology in Practice - Research Fundamentals in Ecology and Evolution). Updating the pre-requisites to reflect this will allow students who have taken SC/Biol 2050 3.0 to enroll in SC/Biol 4400 without needing permission from the biology undergraduate office.

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:** Natural Sciences  
**Course Number:** NATS 1690 6.00  
**Date of Submission:** Sept. 26, 2022

### Effective Session: FW 2023-24

### Type of Change:

- in pre-requisite(s)/co-requisite(s)  
- in course number/level  
- in credit value  
- in title (max. 40 characters for short title)  
- in Calendar description (max. 40 words or 200 characters)  
- other (please specify): CCE clean-up

### Change From:

Origin and diversification of life forms on Earth. Introduction to the historical development of evolutionary theory. Classification of living things and scientific explanations of how biological diversity has arisen. A number of laboratory exercises are included in this course. Course credit exclusions: SC/NATS 1610 6.00, SC/NATS 1650 6.00, SC/NATS 1675 6.00. NCR: any student who has passed or is taking SC/Biol 1000 3.00, SC/Biol 1001 3.00 or SC/Biol 1010 6.00.

### To:

Origin and diversification of life forms on Earth. Introduction to the historical development of evolutionary theory. Classification of living things and scientific explanations of how biological diversity has arisen. A number of laboratory exercises are included in this course. Course credit exclusions: SC/NATS 1610 6.00, SC/NATS 1660 6.00, SC/NATS 1675 6.00. NCR: any student who has passed or is taking SC/Biol 1000 3.00, SC/Biol 1001 3.00 or SC/Biol 1010 6.00.

### Rationale:

It is proposed that NATS1650 be removed as a CCE from both NATS1660 and NATS1690 as the content no longer has substantial cross-over. A statement of support from the Director of Natural Science is attached.

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**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: Natural Sciences  
Course Number: NATS 1660 6.00  
Course Title: The Biology of Sex  
Date of Submission: Sept. 26, 2022  
Effective Session: FW 2023-24

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

Change From:  
This course investigates the role of sexual reproduction in the living world. The cellular, physiological and genetic bases of sex are discussed. Other topics include sexual behaviour and the influence of sexual reproduction on evolution. A number of laboratory exercises are often included in this course. Course credit exclusions: SC/NATS 1610 6.00, SC/NATS 1650 6.00, SC/NATS 1675 6.00, SC/NATS 1690 6.00. NCR: any student who has passed or is taking SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 or SC/BIOL 1010 6.00.

To:  
This course investigates the role of sexual reproduction in the living world. The cellular, physiological and genetic bases of sex are discussed. Other topics include sexual behaviour and the influence of sexual reproduction on evolution. A number of laboratory exercises are often included in this course. Course credit exclusions: SC/NATS 1610 6.00, SC/NATS 1675 6.00, SC/NATS 1690 6.00. NCR: any student who has passed or is taking SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 or SC/BIOL 1010 6.00.

Rationale: It is proposed that NATS1650 be removed as a CCE from both NATS1660 and NATS1690 as the content no longer has substantial cross-over. A statement of support from the Director of Natural Science is attached.

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.
NATS Director's Statement of Support for Removal of NATS1650 as a Course Credit Exclusion from NATS1660 and NATS1690.

We are conducting a review of the CCE and NCR listings for all NATS courses as a number of our courses have not been reviewed in several years.

The course topics for NATS1650, NATS1660 and NATS1690 have been reviewed and all 3 course directors have confirmed that the overlap (<10%) is no longer significant enough to justify a course credit exclusion. The course descriptions for each are provided below. Separate forms for Changes to Existing Course are being submitted to reciprocate the CCE removal for all 3 courses.

NATS1650 Human Anatomy for the Fine Arts*: An introductory course on the structure and function of the human body specifically oriented towards the needs of students in Fine Arts. Body systems are studied from anatomical, physiological, and biomechanical perspectives. Included as well are on-going references to nutrition, athletic injuries, and health and wellness.

NATS1660 The Biology of Sex: This course investigates the role of sexual reproduction in the living world. The cellular, physiological and genetic bases of sex are discussed. Other topics include sexual behaviour and the influence of sexual reproduction on evolution. A number of laboratory exercises are often included in this course.

NATS1690 Evolution: Origin and diversification of life forms on Earth. Introduction to the historical development of evolutionary theory. Classification of living things and scientific explanations of how biological diversity has arisen. A number of laboratory exercises are included in this course.

Robin Metcalfe, MSc, PhD
Director, Division of Natural Science
Department of Science, Technology & Society
Faculty of Science
York University

* NATS1650 is currently undergoing a proposed title change to “Introduction to Human Anatomy”