COUNCIL OF THE FACULTY OF SCIENCE

Notice of Meeting
Tuesday, April 9, 2019
at 3:00pm – 4:30pm
306 Lumbers

Agenda

1. Call to Order and Approval of Agenda
2. Chair’s Remarks
3. Approval of Minutes of December 11, 2018 and March 12, 2019 meetings
4. Business Arising
5. Inquiries and Communications
   • Senate Synopsis of Meeting held on March 28, 2019
6. Dean’s Report to Council
7. Associate Deans’ and Head of Bethune College Remarks
8. Reports from Science Representatives on Senate Committees
9. Reports from Standing Committees of Council
   9.1 Executive Committee
      9.1.1 Ratification and Call for Nominations for Senate and Standing Committee of Council
   9.2 Curriculum Committee (consent agenda items)
10. Other Business
    • Update on the FSc Decanal Search
Minutes
Tuesday, December 11, 2018
at 3:00pm – 4:30pm
306 Lumbers


Guests: H. McLellan, B. Sheeller & M. Hough

1. Call to Order and Approval of Agenda
   The Chair of Council, P. Wilson called the meeting to order and the Agenda was adopted as presented.

2. Chair’s Remarks
   P. Wilson welcomed Council members and thanked them for their hardwork during the fall term. She went on to wish them all a pleasant holiday season.

3. Approval of Minutes of November 13, 2018 meeting
   The Minutes were approved.

4. Business Arising
   There were no Business Arising.

5. Inquiries and Communications
   Council noted the Senate Synopsis of November 22, 2018.
6. **Dean’s Report to Council**

Don Hastie presented the Dean’s report on behalf of EJ Janse van Rensburg, the interim Dean who was away.

Don Hastie reported that Paul Sanberg, Bryden winner and Science alumnus visited the Faculty on Nov. 19, 2018. He toured the YSciCore Analytical Facility led by Derek Wilson and the Psychology lab for Jennifer Steeves.

The annual BeeCon conference by the Faculties of Science and Environmental Studies was held on Nov. 23, 2018.

Don Hastie congratulated the following faculty members;

- Steven Connor (Biology) received a Canada Research Chair in Neurophysiology (Tier 2).
- George Zoidl (Biology) had his Canada Research Chair in Molecular and Cellular Neuroscience (Tier 1) renewed.

The Associate Dean reminded Council of the following;

- That applications for the third batch of York Science Fellowships was now online and the deadline was January 4, 2019.
- The deadline for the President’s Staff Recognition Awards was January 15, 2019.

He invited everyone to the Faculty of Science Holiday Reception to be held on December 19, 2018, at the Schulich Dining Hall.

Don Hastie announced and encouraged Council members to attend the Honours and Awards Evening to be held on January 16, 2019. He added that the keynote speaker was Samer Bishay, President and CEO of Iristel & Ice Wireless. Samer is a graduate of the Space & Communications program at York University, with an Honours Bachelor of Science Degree.

He concluded his report to Council by wishing everyone a merry holiday season.

7. **Associate Deans’ and Head of Bethune College Remarks**

John Amanatides invited Council members to the Bethune College end of year celebration on December 21st.

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

Associate Dean Don Hastie reminded faculty members on the AEF deadline of December 15th and the anomalies exercise deadline for the Dean’s Office, January 10th.

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

9.1 Executive Committee

Curriculum Committee (consent agenda items)
Council approved the Curriculum Committee items.

10. Other Business

10.1 FSc Decanal Search: Position profile

Council noted the feedback from Lyndon Martin, Chair, FSc Search Committee.

10.2 Regarding the Markham Campus, faculty members expressed concern on the wisdom of pursuing the Markham campus construction through fundraising when the campus’s current laboratories’ problems have not been solved.

Motion was moved, seconded and carried to adjourn the meeting.

Chair of Council, P. Wislon

S. Siyatashana, Assistant Secretary of Council
COUNCIL OF THE FACULTY OF SCIENCE

Tuesday, March 12, 2019
at 3:00pm – 4:30pm
306 Lumbers

Minutes


Guests: B. Sheeller, V. Gotcheva & M. Hough

1. Call to Order and Approval of Agenda

   The agenda was adopted as presented.

2. Chair’s Remark

   There was no Chair’s remarks.
3. Approval of Minutes of December 11, 2018 meeting
   The Minutes were approved.

4. Business Arising
   There was no Business Arising.

5. Inquiries and Communications

6. Dean’s Report to Council
   Interim Dean Janse vanRensburg reported on the Honours and Awards evening held on January 16th. He went on to thank Alex Mills and the administrative staff in the Office of the Dean, who worked tirelessly to ensure the success of the event. He stated that the keynote speaker was Samer Bishay, a York alumnus and President & CEO of Iristel & Ice Wireless. He gave a powerful keynote address and the Dean applauded his effective communication skills. The Dean informed Council that Samer expressed interest in getting involved with the Science Faculty.

   He congratulated the following faculty members who received the teaching and research awards;

   **Excellence in Teaching Awards**
   - Derek Jackson (Chemistry) received the Excellence in Teaching Award (Junior Tenure Stream Faculty)
   - Patricia Lakin-Thomas (Biology) received the Excellence in Teaching Award (Senior Tenure Stream Faculty)

   **Excellence in Research Awards**
   - Jennifer Chen (Chemistry) received the Early Career Research Award
   - Eric Hessels (Physics and Astronomy) received the Established Research Award
   - Mark Bayfield (Biology) received the Excellence in Graduate Mentorship Award

   The Dean also congratulated Professor Christopher Caputo (Chemistry). He is among five university researchers in Ontario who have been recognized with a 2018 Polanyi Prize. He is the second former faculty member to get this award.

   The Dean extended his congratulations to the following faculty members;

   - Carol Bucking (Biology) received the 2019 Robert G. Boutlier New Investigator Award from the Canadian Society of Zoologists (CSZ).
   - Jennifer Chen (Chemistry) recipient of the 2019 Fred Beamish Award sponsored by Thermo Fisher Scientific.
- Ozzy Mermut (Physics and Astronomy), and a collaborator, successfully gained almost $320,000 of Canadian Institutes of Health Research funding over four years for their project.

- Thomas Salisbury is one of the Inaugural Class of Fellows of the Canadian Mathematical Society (CMS).

- Joel Zylberberg (Physics and Astronomy) received Catalyst Funds from the Canadian Institute for Advanced Research for the Learning in Machines & Brains program.

Janse VanRensburg welcomed the following new postdocs under the York Science Fellows Program;

- Mohammad Naderi (Biology) - Raymond Kwong
- Meera Mehra (Chemistry) - Chris Caputo
- Hanmeng Zhan (Math & Stats) - Ada Chan
- Leo Yvonne Alcorn (Physics & Astronomy) - Adam Muzzin
- Marianna Bleker de Oliveira (Chemistry) - Sergey Krylov

Research Highlights

Professor Amro Zayed and biologists identified the genes responsible for hygienic behavior in honeybees, “clean genes”, known for improving survival in honeybees. He received extensive media coverage.

An international study, led by Professor Sapna Sharma published in the journal Nature Climate Change, revealed that an extensive loss of northern lake ice will occur within the next generation. Media coverage included CBC News, BBC News and National Geographic.

The Dean encouraged faculty members to contact our media office if they had some interesting research.

The annual Tri-Sci Tourney for Grade 11 students was held on February 21.

He stated that applications for the 2019-2020 Science Communicator in Residence Program are now open and applications are due April 23, 2019.

He encouraged faculty to engage our Science Communicator in Residence, Dan Falk Science journalist, author, and broadcaster. He will in residence starting February to April 2019.

He stated that B. D. Colen, Former Science/Medical Reporter, editor and author will be the Science Communicator in Residence for the Fall/Winter 2019-20.

Upcoming events:
- March 6 at 6pm in Lumbers 306: Communicating Science in the Age of Fake News
- April 3: York Forum: Cybersecurity in the Age of Espionage starts at 7pm at the Bram & Bluma Appel Salon, Toronto Reference Library.

Dean Janse vanRensburg concluded his report by encouraging faculty members to attend these events.
7. **Associate Deans’ and Head of Bethune College Remarks**

Associate Dean Don Hastie reminded faculty members to send in their sabbatical and retirement requests as required by the YUFA Collective Agreement.

Associate Dean Alex Mills drew the Council’s attention to a drop in high school application numbers for the 2019-20 academic year. He stated that the application numbers for 2019 had dropped across the university. However, he noted that Science was down to a greater percentage than the university average. A. Mills added that for our conversions, most students we have come from the first and second choice and these numbers were down compared to the same numbers last year.

While the domestic numbers are better than the high school numbers, international numbers are holding steady and York still maintains its attractiveness among international students.

A. Mills informed Council that they were now at the conversion phase through phone campaigns and a planned open house event. He requested faculty members to get involved in the conversion campaigns.

The meeting noted that the drop in application numbers might have been as a result of the strike. The full impact of the strike is yet to be determined.

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

There were no reports.

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

9.1 Executive Committee

9.1.1 **Ratification of nomination: Standing Committee of Council**

Ratification of this item was postponed to the next meeting due to lack of quorum.

9.1.2 **Call for Nominations - 2019-2020 FSc Report on vacancies for Senate and FSc Standing Committees**

The Chair of Council encouraged faculty members to self-nominate or nominate their colleagues for the various vacancies on Senate and Standing Committees of Council.

9.1.3 **Call for Expressions of Interest in Membership on Senate Committees and Other Positions Elected by Senate**

P. Wilson highlighted these vacancies and reiterated on the need to have Faculty representation on these committees.
9.2  Curriculum Committee (Meeting of January 29, 2019, February 26, 2019 & September 25, 2018)

The meeting approved to forward the Curriculum Committee items to Council as consent agenda items.

10. Other Business

- Update on the FSc Decanal Search
  Mary Helen Armour reported that they had shortlisted five candidates and possibly a sixth additional candidate. She stated that the first interviews were planned for end of March. The second round of interviews are to be scheduled hopefully for end of April. She noted that the Dean’s search had attracted high caliber candidates.

- Council was informed that the Science Faculty had purchased the license for Crowd mark and the feedback from users had been very positive. The hope was to have a contract that does not expire.

Adjournment of the meeting

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

P. Wilson, Chair of Council

S. Siyakatshana, Assistant Secretary of Council
Remarks

The Chair, Professor Franck van Breugel, Lassonde, expressed condolences on behalf of Senate to the victims and families of the tragic event that took place in Christchurch, New Zealand. Echoing the sentiments expressed by the University and community members – including grief, dismay and the commitment to reject such hate and intolerance – the Chair called on all members of the University to nurture an inclusive environment on our campuses. Senators were encouraged to read the recent article published in the Globe & Mail by York professor Zulfikar Hirji, entitled “To humanize Muslims, let’s start in the classroom”.

Delivering the President’s Remarks on behalf of President Rhonda Lenton, Provost Lisa Philipps reiterated the University’s condemnation of the attack in New Zealand and of racism, anti-Semitism and Islamophobia. While York cannot eradicate racism, anti-Semitism and Islamophobia on its own, it will continue to take a strong stance against extremist ideology and contribute to conversations with a view to building a community that respects the dignity of all people. The University has effective processes in place for handling acts of discrimination or hate on campus.

Other comments made by Provost Philipps included the following:

- the recent community conversations held at Keele and Glendon campuses, where the discussion about University priorities was candid, informative and aimed at building collegial governance
- the findings of the provincial government’s Summary Report on the Student Voices on Sexual Violence Survey and the announcement of the government’s requirement that every university establish a task force devoted to tackling sexual violence on campus
- highlights of the federal government’s 2019 budget, which includes investment in work-integrated learning, graduate student scholarship and supports, and an international education strategy
- the upcoming release of the provincial government’s budget on April 11 with details to be provided at the April 25 Senate meeting
- an update on the decanal search processes which have been utilizing the new search procedures, making provision for searches to be conducted confidentially or with an open phase
- the news that York alumna Lilly Singh is going to be the host of a new late-night show on NBC, “A Little Late with Lilly Singh”
The Senate of York University

Synopsis

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

Reports

The reports, delivered under the auspices of the Academic Planning, Policy and Research Committee, included:

- a presentation from Vice-President Research and Innovation Rob Haché on the E-CV Management Task Force on its development of an E-CV platform for York researchers
- a presentation and facilitated discussion from Provost Philipps on the Provostial Discussion Paper on the Complement Renewal Strategy

Approvals

Senate approved recommendations of its Academic Standards, Curriculum and Pedagogy Committee to:

- establish a new degree type and degree program, the Master of Management in Artificial Intelligence, Schulich School of Business / Faculty of Graduate Studies
- change the degree requirements and program learning outcomes for the Master of Business Analytics program, Schulich School of Business / Faculty of Graduate Studies
- change the requirements for the Graduate Diploma in Intermediate Accounting, Schulich School of Business / Faculty of Graduate Studies
- change the degree requirements for the Master of Accounting program, Schulich School of Business / Faculty of Graduate Studies
- change the degree requirements and program learning outcomes for the MA program in Economics, Department of Economics, Faculty of Liberal Arts & Professional Studies / Faculty of Graduate Studies
- change the requirements for the Certificate in Anti-Racist Research and Practice, Department of Equity Studies, Faculty of Liberal Arts & Professional Studies
- change the requirements for the Certificate in Indigenous Studies, Department of Equity Studies, Faculty of Liberal Arts & Professional Studies
- establish a consecutive option for the Black Canadian Studies Certificate, Department of Humanities, Faculty of Liberal Arts & Professional Studies
- grant transfer credits from the School of Dance to the BFA (Honours) program in Dance, School of the Arts, Media, Performance & Design
The Senate of York University

Synopsis

- establish a stream in Financial Mathematics within the Specialized Honours BA and BSc programs in Applied Mathematics, Department of Mathematics and Statistics, Faculty of Science
- close the Specialized Honours BSc program in Computational Mathematics, Department of Mathematics and Statistics, Faculty of Science

Committee Information Reports

Executive (Professor David Mutimer, Interim Vice-Chair)

The Executive Committee provided Notice of Statutory Motion for the approval of membership of Senate for the period July 1, 2019 to June 30, 2021.

The Executive Committee’s information items included the following:

- the extension of the nominations period for the Special Joint Senate-Board Working Group on Jurisdiction Related to the Cancellation/Suspension of Classes during a Labour Disruption to Wednesday, April 10
- the approval of the Faculty of Health member on the Academic Policy, Planning and Research Committee, Professor Eva Peisachovich of the School of Nursing
- the preliminary discussions of core issues and areas to be covered in this year’s review of Senate Rules, Procedures & Guidelines
- the review of changes to the Faculty Council rules and procedures in the Faculty of Health
- the approval of recommendations from the Sub-Committee on Honorary Degrees and Ceremonials to add individuals to the pool of prospective recipients of honorary degrees

Academic Policy, Planning and Research (Professor Lesley Jacobs, Chair)

APPRC provided information on these items:

- the preparation of a Discussion Paper and Action Plan on Achieving Planning Goals While Moving Towards Incomparable Metrics and the next steps for moving the Incomparable Metrics initiative forward
- its input on the Provostial Discussion Paper on the Complement Renewal Strategy
- the tracking of 2015-2020 UAP progress and preparations for one-on-one discussions with the Deans / Co-Principals over spring and fall 2019 on their respective successes in advancing UAP goals
- progress on the initiative to develop “Faculty Blue”, of which the next major step is the development of the proposal for the establishment of the Faculty
The Senate of York University

Synopsis

• its review of revisions to the Principles and Procedures Governing Non-Degree Studies

Academic Standards, Curriculum and Pedagogy (Professor Kim Michasiw, Chair)

ASCP conveyed an update on activities underway relating to the promotion of academic integrity at York. ASCP also provided information on minor changes approved by the Committee.

Education
• Minor change to degree requirements for the BA programs in Educational Studies

Health
• Minor changes to streams within the Specialized Honours BA and BSc programs in Global Health
• Minor changes to degree requirements for the Bachelor of Health Studies
• Minor changes to the requirements for the Interdisciplinary Certificate in Aging
• Minor changes to admission and program requirements for the York-Seneca Rehabilitation Services Certificate

Graduate Studies
• Minor change to the degree requirements for the MA program in Interdisciplinary Studies
• Change in rubrics for the Professional LLM specializations in Osgoode Professional Development
• Changes to the admission requirements in English Language Proficiency

Liberal Arts & Professional Studies
• Minor change to degree requirements for the BA programs in Children, Childhood and Youth
• Minor change to the Bachelor of Human Resources Management Minor program
• Minor changes to requirements for the Professional Certificate in Logistics
The Senate of York University

Synopsis

Lassonde
- New rubric for technology proficiency courses

Science
- Expansion of the Seneca-York Chemistry Co-Registration Option to the BSc program in Chemistry and the BSc (Honours) program in Biochemistry
- Minor change to degree requirements for the BA and BSc programs in Applied Mathematics
- Minor change to the Biomedical Science stream within the BSc programs in Biology
- Change to non-science general education requirement for BSc programs

Awards (Professor Brenda Spotton Visano, Chair)
The Awards Committee conveyed the 2017-2018 Undergraduate Award Disbursement Report and the 2017-2018 Graduate Disbursement Report.

Additional Information about this Meeting
Please refer to the full Senate agenda and supplementary material posted online with the March 28, 2019 meeting for details about these items.

http://secretariat.info.yorku.ca/senate/meeting-agendas-and-synopses/

April Meeting of Senate
Senate’s next meeting will be held at 3:00 p.m. on Thursday, April 25, 2019
2019-2020 FSc Report on vacancies for Senate and FSc Standing Committees

Ratification of Nominations

Petitions Committee
W. J. Pietro, Department of Chemistry

Committee on Research and Awards
Sylvie Morin, Department of Chemistry

Senate
R. Fournier as Chair of Department, Chemistry
E. Hessels member at large

Curriculum Committee
S. Connor, Department of Biology
P. Potvin, Department of Chemistry

Academic Policy and Planning Committee
R. McLaren, Department of Chemistry
Committee | Rules of Faculty Council - membership | Meeting time / Membership | Term From | Term 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 9 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 | 2022 | 2029
Desgnated | U Janse van Rensburg - Interim Dean | Designated | 2022 | 2022
Designated | E. Hessels | 2019 | 2022
Member at large | R. Tsushima | Biology | 2018 | 2021
Member at large | T. Baumgartner, Chemistry | 2018 | 2021
Member at large | D. Wilson, Chemistry | 2018 | 2021
Department Chair | R. Tsuchima | Biology | 2018 | 2021
Department Chair | R. Fournier | 2019 | 2022
Department Chair | K. Kroker, STS | 2017 | 2020
Director of NATS | J. Clark | Designated | 2018 | 2021
Student representative | Robert Cheung | 2018 | 2020
Student representative | VACANCY | 2019 | 2021

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 and Technology Studies/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. | The Executive Committee will normally meet the first Tuesday of each month (September to May) from 1:30 pm - 3:00 pm in LUM 805B | 2022 | 2022
Chair of Council | M. H. Armour | 2019 | 2020
Vice-Chair of Council | VACANCY | 2019 | 2020
Dean | Ex officio | Designated | 2019 | 2022
Asst. Dean - SEM & SFP | A. Mutf | Designated | 2019 | 2022
Office of the Dean, staff representative | VACANCY | 2019 | 2020
Undergraduate Student Rep | VACANCY | 2019 | 2020
Biology | A. Hilliker | 2018 | 2021
Chemistry | G. Audette | 2017 | 2020
Math & Stats | VACANCY | 2019 | 2022
Physics & Astronomy | VACANCY | 2019 | 2022
STS | J. Elwick | 2018 | 2021

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 and Technology Studies/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 | 2022 | 2022
Associate Dean, Faculty Affairs | D. Haste | Designated | 2019 | 2020
Head of Bethune College | J. Amanatides | Designated | 2019 | 2020
Undergraduate Student Rep | VACANCY | 2019 | 2020
Elected staff representative | VACANCY | 2019 | 2020
Biology | VACANCY | 2019 | 2020
Chemistry | R. McLaren | 2019 | 2022
Math & Stats | VACANCY | 2019 | 2022
Physics & Astronomy | VACANCY | 2019 | 2022
STS | VACANCY | 2019 | 2022

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 1:30 pm - 3:00 pm | 2022 | 2022
Member at large | VACANCY | 2019 | 2022
Member at large | VACANCY | 2019 | 2022
Dean | U Janse van Rensburg | Designated | 2019 | 2022
Associate Dean - Students | A. Mills | Designated | 2019 | 2022
Undergraduate Student Rep (two-vacancies) | VACANCIES | 2019 | 2020
Biology | Seven Connor | 2019 | 2022
Chemistry | P. Poti | 2019 | 2022
Math & Stats | J. Grigull (Fall); M. Chen (Winter) | 2017 | 2020
Physics & Astronomy | VACANCY | 2019 | 2022
STS | VACANCY | 2019 | 2022
Geography | VACANCY | 2019 | 2022

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 and Technology Studies/Natural Science, and one student member of Council. | CEAS will normally meet every alternate Wed / Thurs from 1:00 - 3:00 pm year round. | 2022 | 2022
### Committee

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<th>Committee</th>
<th>Rules of Faculty Council - membership</th>
<th>Meeting time / Membership</th>
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<td><strong>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.</strong></td>
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<td>The Petitions Committee shall consist of an Associate Dean (ex officio), six members of Council, and two student members of Council. A quorum shall consist of either (a) three faculty members and one student member or (b) four faculty members. The Petition’s Committee has two panels. Each panel meets once a month either on Wednesday from 2:30 pm - 4:00 pm or Thursday from 11:00 am - 1:00 pm</td>
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<td>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 1:00 pm - 2:30 pm</td>
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<tr>
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<tr>
<td>Graduate Student Representative</td>
<td>Snezhana Kirusheva</td>
<td>2018</td>
<td>2020</td>
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<tr>
<td>Graduate Student Representative</td>
<td>Amanda Liczner</td>
<td>2018</td>
<td>2020</td>
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<td>2020</td>
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<tr>
<td>Steacie Librarian</td>
<td>Ilo-Katryn Maimets</td>
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<tr>
<td>IT Representative</td>
<td>Violeta Gotcheva</td>
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<tr>
<td>Teaching Commons Rep</td>
<td>Y. Su</td>
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<tr>
<td>Staff representative, Elected</td>
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<td>2019</td>
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<tr>
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<td>Physics &amp; Astronomy</td>
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<td>W. Lui</td>
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<td>STS</td>
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<td>2022</td>
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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 and Technology Studies/Natural Science, and Physics and Astronomy, one student member of Council and an Associate Dean (ex officio) who will serve as the Chair.

The Research & Awards Committee will meet when grants and awards need to be adjudicated.

<table>
<thead>
<tr>
<th>Associate Dean - Research &amp; Graduate education</th>
<th>From</th>
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Appeals

The Appeals 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.

<table>
<thead>
<tr>
<th>Associate Dean - Research &amp; Graduate Education, ex officio</th>
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<tr>
<td>M.H. Armour</td>
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<td>2021</td>
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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 regarding 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 March 26, 2019, 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 tinar@yorku.ca

Agenda

Biology

Change in calendar description: Biomedical Science streams - (Specialized Honours, Biomedical Science stream, Honours, Biomedical Science stream, Honours Major/Minor Biomedical Science stream, Honours Major Program (iBSc) Biomedical Science stream)
Changes to the Biomedical Sciences Stream list of possible BIOL courses in the:
Specialized Honours Program Biomedical Science Stream
Honours Major Biomedical Science Stream
Honours Major/Minor Biomedical Science Stream
Honours Major Program (iBSc) Biomedical Science Stream

Rationale: BIOL 4350 is no longer offered as the course has been changed to a third year course, so this is a clean-up of calendar copy.

<table>
<thead>
<tr>
<th>Change from:</th>
<th>Change to:</th>
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<tbody>
<tr>
<td><strong>Specialized Honours Program Biomedical Science Stream</strong>&lt;br&gt;Major requirements:&lt;br&gt;• SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;&lt;br&gt;• one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;&lt;br&gt;• SC/BIOI 1000 3.00 and SC/BIOI 1001 3.00; SC/BIOI 2020 3.00; SC/BIOI 2021 3.00; SC/BIOI 2040 3.00; SC/BIOI 2070 3.00; SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIOI 2030 4.00 or SC/BIOI 2060 3.00; SC/BIOI 3100 2.00; SC/BIOI 4000 8.00 or SC/BIOI 4000 3.00;&lt;br&gt;• a minimum of nine credits chosen from the following courses: SC/BIOI 3060 4.00; SC/BIOI 3070 4.00; SC/BIOI 3110 3.00; SC/BIOI 3130 3.00; SC/BIOI 3150 4.00; SC/BIOI 3155 3.00; SC/BIOI 4010 3.00;&lt;br&gt;• additional biology credits from the following courses, as required, for an overall total of 68 biology credits: SC/BIOI 2010 4.00, SC/BIOI 2030 4.00, SC/BIOI 2060 3.00, SC/BIOI 3010 3.00, SC/BIOI 3060 4.00, SC/BIOI 3070 4.00, SC/BIOI 3120 3.00, SC/BIOI 3130 3.00, SC/BIOI 3140 4.00, SC/BIOI 3150 4.00, SC/BIOI 3155 3.00, SC/BIOI 4010 3.00, SC/BIOI 4020 3.00, SC/BIOI 4030 3.00, SC/BIOI 4061 3.00, SC/BIOI 4110 4.00, SC/BIOI 4141 3.00, SC/BIOI 4150 3.00, SC/BIOI 4151 3.00, SC/BIOI 4155</td>
<td><strong>Specialized Honours Program Biomedical Science Stream</strong>&lt;br&gt;Major requirements:&lt;br&gt;• SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;&lt;br&gt;• one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;&lt;br&gt;• SC/BIOI 1000 3.00 and SC/BIOI 1001 3.00; SC/BIOI 2020 3.00; SC/BIOI 2021 3.00; SC/BIOI 2040 3.00; SC/BIOI 2070 3.00; SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIOI 2030 4.00 or SC/BIOI 2060 3.00; SC/BIOI 3100 2.00; SC/BIOI 4000 8.00 or SC/BIOI 4000 3.00;&lt;br&gt;• a minimum of nine credits chosen from the following courses: SC/BIOI 3060 4.00; SC/BIOI 3070 4.00; SC/BIOI 3110 3.00; SC/BIOI 3130 3.00; SC/BIOI 3150 4.00; SC/BIOI 3155 3.00; SC/BIOI 3350 4.00, SC/BIOI 4010 3.00, SC/BIOI 4020 3.00, SC/BIOI 4030 3.00, SC/BIOI 4061 3.00, SC/BIOI 4110 4.00, SC/BIOI 4141 3.00, SC/BIOI 4150 3.00, SC/BIOI 4151 3.00, SC/BIOI 4155</td>
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<tr>
<td>SC/BIOL 4200</td>
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<td>3.00, SC/BIOL 4290 4.00, SC/BIOL 4310</td>
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<td>SC/BIOL 4380</td>
<td>3.00, SC/BIOL 4450 4.00, SC/BIOL 4450 4.00, SC/BIOL 4510 3.00;</td>
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<td>3.00</td>
<td><strong>within the 68 biology credits, at least 18 credits must be at the 3000 level or higher, of which at least 12 credits must be at the 4000 level. This must also include a minimum of seven credits from 3000 level or higher biology courses with an associated laboratory component.</strong></td>
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</table>

**Honours Major Biomedical Science Stream**

**Major requirements:**
- SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;
- one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;
- SC/BIOL 1000 3.00 and SC/BIOL 1001 3.00, SC/BIOL 2020 3.00, SC/BIOL 2021 3.00, SC/BIOL 2040 3.00, SC/BIOL 2070 3.00, SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIOL 2030 4.00 or SC/BIOL 2060 3.00;
- a minimum of nine credits chosen from the following courses: SC/BIOL 3060 4.00; SC/BIOL 3070 4.00; SC/BIOL 3100 2.00; SC/BIOL 3110 3.00; SC/BIOL 3130 3.00; SC/BIOL 3150 4.00; SC/BIOL 3155 3.00; SC/BIOL 4010 3.00;
- additional biology credits from the following courses, as required, for an overall total of 51 biology credits: SC/BIOL 2010 4.00, SC/BIOL 2030 4.00, SC/BIOL 2060 3.00, SC/BIOL 3010 3.00, SC/BIOL 3060 4.00, SC/BIOL 3070 4.00, SC/BIOL 3071 3.00, SC/BIOL 3100 2.00, SC/BIOL 3110 3.00, SC/BIOL 3120 3.00, SC/BIOL 3130 3.00, SC/BIOL 3140 4.00, SC/BIOL 3150 4.00, SC/BIOL 3155 4.00.
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<td>SC/BIOL 3155</td>
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<td>SC/BIOL 4010</td>
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- within the 51 biology credits at least 18 credits must be at the 3000 level or higher, of which at least 12 credits must be at the 4000 level. This must also include a minimum of seven credits from 3000 level or higher biology courses with an associated laboratory component.

### Honours Major/Minor Biomedical Science Stream

**Major requirements:**
- SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;
- one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;
- SC/BIO 1000 3.00 and SC/BIO 1001 3.00, SC/BIO 2020 3.00, SC/BIO 2021 3.00, SC/BIO 2040 3.00, SC/BIO 2070 3.00, SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIO 2030 4.00 or SC/BIO 2060 3.00;
- a minimum of nine credits chosen from the following courses: SC/BIO 3060 4.00; SC/BIO 3070 4.00; SC/BIO 3110 2.00; SC/BIO 3110 3.00; SC/BIO 3130 3.00; SC/BIO 3150 4.00; SC/BIO 3155 3.00; SC/BIO 4010 3.00;
- additional biology credits from the following courses, as required, for an overall total of 51 biology credits: SC/BIO 2010 4.00, SC/BIO 2030 4.00, SC/BIO 2060 3.00, SC/BIO 3010

### Honours Major/Minor Biomedical Science Stream

**Major requirements:**
- SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;
- one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;
- SC/BIO 1000 3.00 and SC/BIO 1001 3.00, SC/BIO 2020 3.00, SC/BIO 2021 3.00, SC/BIO 2040 3.00, SC/BIO 2070 3.00, SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIO 2030 4.00 or SC/BIO 2060 3.00;
- a minimum of nine credits chosen from the following courses: SC/BIO 3060 4.00; SC/BIO 3060 4.00; SC/BIO 3070 4.00; SC/BIO 3110 2.00; SC/BIO 3110 3.00; SC/BIO 3130 3.00; SC/BIO 3150 4.00; SC/BIO 3155 3.00; SC/BIO 4010 3.00;
- additional biology credits from the following courses, as required, for an overall total of 51 biology credits: SC/BIO 2010 4.00, SC/BIO 2030 4.00, SC/BIO 2060 3.00, SC/BIO 3010
Honours Major Program (iBSc) Biomedical Science Stream

Major requirements:

- SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;
- one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;
- SC/BIOl 1000 3.00 and SC/BIOl 1001 3.00, SC/BIOl 2020 3.00, SC/BIOl 2021 3.00, SC/BIOl 2040 3.00, SC/BIOl 2070 3.00, SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIOl 2030 4.00 or SC/BIOl 2060 3.00;
- a minimum of nine credits chosen from the following courses: SC/BIOl 3060 4.00; SC/BIOl 3070 4.00, SC/BIOl 3071 3.00, SC/BIOl 3100 2.00, SC/BIOl 3110 3.00, SC/BIOl 3120 3.00, SC/BIOl 3130 3.00, SC/BIOl 3140 4.00, SC/BIOl 3150 4.00, SC/BIOl 3155 3.00, SC/BIOl 4000 3.00, SC/BIOl 4000 8.00, SC/BIOl 4010 3.00, SC/BIOl 4020 3.00, SC/BIOl 4030 3.00, SC/BIOl 4061 3.00, SC/BIOl 4110 3.00, SC/BIOl 4110 4.00, SC/BIOl 4141 3.00, SC/BIOl 4150 3.00, SC/BIOl 4151 3.00, SC/BIOl 4155 3.00, SC/BIOl 4200 3.00, SC/BIOl 4220 4.00, SC/BIOl 4270 3.00, SC/BIOl 4285 3.00, SC/BIOl 4290 4.00, SC/BIOl 4310 3.00, SC/BIOl 4320 3.00, SC/BIOl 4350 4.00, SC/BIOl 4360 4.00, SC/BIOl 4370 3.00, SC/BIOl 4380 3.00, SC/BIOl 4450 4.00, SC/BIOl 4510 3.00;
- within the 51 biology credits at least 18 credits must be at the 3000 level or higher, of which at least 12 credits must be at the 4000 level. This must also include a minimum of seven credits from 3000 level or higher biology courses with an associated laboratory component.

Honours Major Program (iBSc) Biomedical Science Stream

Major requirements:

- SC/CHEM 1000 3.00 and SC/CHEM 1001 3.00;
- one of SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or HH/PSYC 1010 6.00;
- SC/BIOl 1000 3.00 and SC/BIOl 1001 3.00, SC/BIOl 2020 3.00, SC/BIOl 2021 3.00, SC/BIOl 2040 3.00, SC/BIOl 2070 3.00, SC/CHEM 2020 3.00 and SC/CHEM 2021 3.00; a minimum of one of SC/BIOl 2030 4.00 or SC/BIOl 2060 3.00;
- a minimum of nine credits chosen from the following courses: SC/BIOl 3060 4.00; SC/BIOl 3070 4.00, SC/BIOl 3071 3.00, SC/BIOl 3100 2.00, SC/BIOl 3110 3.00, SC/BIOl 3120 3.00, SC/BIOl 3130 3.00, SC/BIOl 3140 4.00, SC/BIOl 3150 4.00, SC/BIOl 3155 3.00, SC/BIOl 4000 3.00, SC/BIOl 4000 8.00, SC/BIOl 4010 3.00, SC/BIOl 4020 3.00, SC/BIOl 4030 3.00, SC/BIOl 4061 3.00, SC/BIOl 4110 3.00, SC/BIOl 4141 3.00, SC/BIOl 4150 3.00, SC/BIOl 4151 3.00, SC/BIOl 4155 3.00, SC/BIOl 4200 3.00, SC/BIOl 4220 4.00, SC/BIOl 4270 3.00, SC/BIOl 4285 3.00, SC/BIOl 4290 4.00, SC/BIOl 4310 3.00, SC/BIOl 4320 3.00, SC/BIOl 4360 3.00, SC/BIOl 4370 3.00, SC/BIOl 4380 3.00, SC/BIOl 4410 3.00, SC/BIOl 4450 4.00, SC/BIOl 4510 3.00;
- within the 51 biology credits at least 18 credits must be at the 3000 level or higher, of which at least 12 credits must be at the 4000 level. This must also include a minimum of seven credits from 3000 level or higher biology courses with an associated laboratory component.
- additional biology credits from the following courses, as required, for an overall total of 42 biology credits: SC/BIOL 2010 4.00, SC/BIOL 2030 4.00, SC/BIOL 2060 3.00, SC/BIOL 3070 4.00, SC/BIOL 3071 3.00, SC/BIOL 3100 2.00, SC/BIOL 3110 3.00, SC/BIOL 3120 3.00, SC/BIOL 3130 3.00, SC/BIOL 3140 4.00, SC/BIOL 3150 4.00, SC/BIOL 3155 3.00, SC/BIOL 4000 3.00, SC/BIOL 4000 8.00, SC/BIOL 4010 3.00, SC/BIOL 4020 3.00, SC/BIOL 4030 3.00, SC/BIOL 4061 3.00, SC/BIOL 4110 4.00, SC/BIOL 4141 3.00, SC/BIOL 4150 3.00, SC/BIOL 4151 3.00, SC/BIOL 4155 3.00, SC/BIOL 4200 3.00, SC/BIOL 4220 4.00, SC/BIOL 4270 3.00, SC/BIOL 4285 3.00, SC/BIOL 4290 4.00, SC/BIOL 4310 3.00, SC/BIOL 4320 3.00, **SC/BIOL 4350 4.00**, SC/BIOL 4360 4.00, SC/BIOL 4370 3.00, SC/BIOL 4380 3.00, SC/BIOL 4450 4.00, SC/BIOL 4510 3.00;
- within the 42 biology credits at least 18 credits must be at the 3000 level or higher, of which at least 12 credits must be at the 4000 level. This must also include a minimum of seven credits from 3000 level or higher biology courses with an associated laboratory component.