



VANCOUVER SENATE

MINUTES OF 17 APRIL 2019

DRAFT

Attendance

Present: S. Ono (Chair), K. Ross (Secretary), P. Adebar, T. Ahmed, S. Bates, L. Burr, J. Chai, A. Collier, M. Coughtrie, B. Fischer, A. Fisher, S. Forwell, B. Frank, J. Gilbert, A. Gonzalez, S. Grayston, V. Griess, C. Hakim, P. Harrison, M. Holmes, C. Jaeger, P. Keown, C. Krebs, M. Kuus, M. Leuprecht, K. Lo, P. Loewen, D. MacDonald, K. Madill, P. Marshall, S. Matsui, B. McNulty, L. Milroy, A. Murphy, J. Olson, T. Onifade, N. Pang, S. Parker, A. Sheppard, S. Singh, M. Stewart, C. Surniawan, A. Szeri, R. Tees, S. Thorne, V. Tsang, R. Ty, M. Upadhyaya, R. Yada, E. Zusman

Regrets: G. Faulkner, I. Frigaard, J. Greenman, M. Koehoorn, B. McKee, M. MacDougall, C.W. Marshall, S. Ngo, T. Rogers, A. Tanner, R. Topping

Clerk: C. Eaton

Call to Order

The Chair of Senate, Dr Santa Ono called the eighth regular meeting of the Vancouver Senate for the 2018/2019 Academic Year to order at 6:01 pm.

Senate Membership

NEW MEMBERS

The Registrar announced the new student members of Senate for terms from 1 April 2019 to 31 March 2020 and thereafter until replaced:

Applied Science
Mr Alex Gonzalez

Arts
Mr Mathias Leuprecht (Continuing)

Commerce and Business Administration
Mr Dante Agosti-Moro

Dentistry
Ms Rojin Djavanmardi



Forestry
Mr Christian Surniawan (Continuing)

Graduate and Postdoctoral Studies
Mr Temitope Onifade
Ms Alexa Tanner (Continuing)

Land and Food Systems
Ms Lillian Milroy

Medicine
Ms Vivian Tsang

Pharmaceutical Sciences
Ms Enav Zusman

Science
Mr Riley Ty

Members at-large
Ms Julia Burnham – Faculty of Arts
Ms Julia Chai – Faculty of Science
Mr Christopher Hakim – Faculty of Arts
Mr J. Maximillian Holmes - Faculty of Arts (Continuing)
Mr Nick Pang – Faculty of Pharmaceutical Sciences (Continuing)

The Registrar noted that the Education Student Senator Position transitions in October of each year and that the name of the new Senator for Allard Law had not yet been given to her office.

NOMINATING COMMITTEE

The Registrar issued a call for nominations for two (2) student members of Senate to serve on the Senate Nominating Committee until 31 March 2020 and thereafter until replaced.

VICE CHAIR

The Registrar advised that as a result of the call for nominations issued with the agenda, only one candidate had been nominated. She therefore declared Mr Matthias Leuprecht acclaimed elected as Vice-Chair of the Senate for a term of no more than one (1) year pursuant to Section 37(1)(a) of the *University Act*.

Minutes of 20 March 2019

Richard Tees	}	<i>That the Minutes of the Meeting of 20 March 2019 be adopted as corrected:</i>
Peter Marshall		



*Spelling of Senator Pang and Collier's names.
Senator Haffey was in attendance.*

Approved

Business Arising

The Registrar advised that her office was still considering the comments made by former-Senator Malone at the previous meeting and would provide a response at the next meeting.

Senator Holmes suggested that the students had asked for an opportunity to have a conversation rather than a reply.

The Registrar replied that she could set up a meeting with Ms Malone before providing the Senate with an update.

President's Remarks

The President welcomed UBC's new Vice-President, Students, Dr Ainsley Carry, who was present in the gallery. He noted that Dr Carry came to UBC from the University of Southern California, where he served as vice-president for student affairs.

Dr Ono announced that UBC ranked number one in the world for taking urgent action to combat climate change and its impacts and ranked number one in Canada for making cities inclusive, safe, resilient and sustainable, according to Times Higher Education. He suggested that UBC's achievements in these rankings is a clear reflection of the great work of our students, faculty and staff who combine their expertise to ensure UBC is a leader in creating vibrant, sustainable and connected communities and campuses.

The President congratulated Dr Connie Eaves, who has been awarded the 2019 Canada Gairdner Wightman Award. The award recognizes scientists who make transformative contributions to research that impacts human health. Dr. Eaves received the prestigious award for her pioneering work and leadership in the study of hematopoietic, mammary and cancer stem cells, as well as for her dedicated advocacy for early career investigators and women in science.

The President advised that he spoke about UBC's strategic plan at the American Council on Education (ACE) meeting in Philadelphia in March. ACE is the major coordinating body for colleges and universities in the United States and it was an honour to discuss our strategic plan with such an influential group. He noted that he had a similar conversation on implementing the strategic plan during his annual address to the Greater Vancouver Board of Trade, with particular reference to how the plan affects the Metro Vancouver region.

Dr Ono reminded Senate that last week, McGill Principal Suzanne Fortier and he announced the creation of the Peterson-Wesbrook Scholars Program to support the reciprocal exchange of



students between McGill and UBC. The program is named in honour of Sir William Peterson, Principal of McGill University from 1895 to 1919, and Frank Wesbrook, founding President of UBC. The Peterson-Wesbrook Scholars Program will facilitate the exchange of students for scholarly work and will allow students to benefit from the special facilities and courses found at each university. Both UBC and McGill have provided seed funding for the program.

The President further noted that on April 8, he had cohosted a President's Community Roundtable on supporting non-market housing innovation in Metro Vancouver. Housing and community advocates and experts came together with myself and Dr Penny Gurstein of the Housing Research Collaborative to discuss UBC's role in non-market housing in the region. That same week he participated in the first ever UBC Emeritus College Symposium, moderating a panel on scholarship in the age of populism and fake news.

Dr Ono advised that four UBC computer scientists have been appointed to chairs as part of an expansion of the Canada-CIFAR AI Chairs program. The AI program, funded by the Federal government with \$86.5 million over five years, provides researchers with long-term, dedicated funding to support their research programs and help them train the next generation of Canadian AI leaders. The new UBC Science Canada CIFAR AI Chairs are Leonid Sigal, Kevin Leyton-Brown, Mark Schmidt, and Frank Wood. They join UBC statistician Sara Mostafavi, appointed to the program in 2018.

Finally, the President expressed his pride in UBC continuing to excel in international rankings. Today Clarivate Analytics announced that UBC is ranked #19 in world and #1 in Canada in research. He suggested that this is a tribute to VP Research and Innovation Gail Murphy, her team, and most importantly, to all of UBC's outstanding researchers.

Budget Presentation

The Vice-President Finance and Operations, Dr Peter Smailes and the Vice-President Academic and Provost, Dr Andrew Szeri presented.

Senator Hakim thanked them for including students in the consultation. He asked why the faculty and department budgets had some large reserve funds, especially Medicine.

The Provost said Medicine was a large irrigation that was interdigitated with the health authorities. In most cases those reserves are not held by dean's offices but rather by included units. Those units are saving for important activities; for example, Psychology is saving reserves for a renovation of the Kenny Building to add space for five new faculty labs. Another use could be to plan for upcoming retirements.

Mr Smailes added that for Medicine, the government has provided additional funding that is being spent over time.

Senator Holmes asked about the reserve draw down additions. Some only had 1 or 2%, but for others it was close to 10%. Why the large additions?



The Provost said that, for example, LFS was saving for a number of years for a new building on the farm. Smailes added that one point of the budget was to highlight why reserve funds existed and what they were intended for.

Senator Singh noted the increases in projected international revenue and asked if increases, 13% in this case, were sustainable over the next decade given international competition and domestic politics.

The Provost noted that at the last Senate meeting he presented on long-term enrolment planning. We had a period of rapid growth but that growth is now levelling off. Those enrolment targets are approved by the Board and Senate annually. We do a lot of work to ensure that we have a diverse body of international students, unlike some other Canadian universities. That both gives us more sustainability and improves the learning environment. We do consider space and teaching capacity carefully in working out enrolment planning.

Senator Singh asked what aspect of our budget was targeted towards experiential learning. As the budget flows from central to the faculty to the department, we don't necessarily see that reflected.

The Provost said that experiential learning and undergraduate research are partially funded by faculties and departments and partly from the central budget. One of the things the strategic plan calls us to do is have a more coherent plan for our programs, investments, and expenditures in this area.

The President thanked the Senator for the question. He suggested that as a university we can never take in such revenues for certain, and the executive and board were also considering this issue. We do have other levers, for example, we are trying to advance our development opportunities to augment or fill gaps. There is also some federal or provincial funding available for certain initiatives. Also, institutions always have to look below the increment to see how efficient UBC is. We always hope that we can be more efficient and have cost savings. Dr Ono committed to reporting back to the Senate on this.

Senator Krebs said that for research excellence the allocation was \$34 million and for transformational learning only \$5 million. She suggested that this area was a key priority for our strategic plan and these numbers seemed small by comparison. She asked what was the rationale and how those allocations were made?

The Provost said that this was a snapshot in time. We are making a large investment in digital research computing infrastructure. This would be a sustained investment that would lift us to a new level. A year from now we will be back with not such a large investment for research and instead we will propose investment elsewhere. We are making this investment because the national infrastructure is not working for many UBC researchers. We are still continuing a sustained pattern of investment in the teaching and learning enhancement fund, and the new online learning advancement fund.



The President added that across the overall budget, one thing not mentioned frequently is the \$668 million in research income that funds a lot of things in the budget. Infrastructure support for research is under duress right now across UBC. STEM and Health disciplines in particular need support here, we are trying to solve that via U15 and Universities Canada but that is a slow process so this focused investment is to allow our researchers to continue.

Senator Leuprecht noted that page 20 and 22 differed in terms of their strategic hires, with the former referring to Law and Education and the latter including Medicine.

The Provost said it was a question of from where the funding was being allocated. We are working to renew the Faculty of Medicine. The issue with Law and Education is that they can only accommodate domestic students in most cases and they have constrained domestic tuition. From time to time we do aid all the faculties in their hiring aspirations.

Senator Chai asked what the distribution was for projects within the envelope for individual projects.

The Provost said this was a high level budget presentation; each proposal has its own budget and rationale that is reviewed under the budget process.

The President said we can make the details available upon request.

Academic Policy Committee

The Chair of the Senate Academic Policy Committee, Dr Paul Harrison presented.

REVISION TO ACADEMIC REGULATIONS FOR THE FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

Paul Harrison	}	<i>That Senate approve the amended Calendar language put forward by the Faculty of Graduate and Postdoctoral Studies for the following policies as set out in the attached two column forms:</i> <i>a) Duration of Program</i> <i>b) Program of Study for Doctoral Students; and,</i> <i>c) Part-time International Students.</i>
Philip Loewen		

Senator Harrison suggested that these changes were editorial improvements for clarity rather than substantive.

Approved



Agenda Committee

With the permission of Senate, former Senator Gattinger spoke to this proposal

INTER-CAMPUS MOBILITY

Paul Harrison
Richard Tees

}

That the President be directed to arrange for a report to be presented to the September 2019 meeting of Senate on the current state of inter-campus mobility and cross-campus academic collaboration between the Vancouver and Okanagan campuses of the University; and

That the motion for which notice was given at the March 2019 meeting of Senate be placed on the agenda of the September 2019 meeting of Senate for consideration.

Mr Gattinger explained that this would give the administration a chance to update materials to ensure a more informed debate.

Approved

Awards Committee

The Chair of the Senate Awards Committee, Dr Lawrence Burr, presented.

AWARDS REPORT

See Appendix A: Awards Report

Lawrence Burr
Anthony Sheppard

}

That Senate accept the awards as amended and forward them to the Board of Governors for approval; and that letters of thanks be sent to the donors.

Approved

INTERIM REPORT ON SUMMER SESSION COURSES AND STUDENT AWARDS

Dr Burr advised that an interim report had been distributed to the Senate.

The Committee settled on four principles that would guide the Committee's decision-making process in this inquiry:



1. Equality of Access

All students should have an equal opportunity to earn merit-based awards. Awards eligibility rules should not unreasonably disadvantage students for reasons unrelated to merit.

2. Maintenance of Rigour

Merit-based awards should continue to recognize academic or other achievement. Changes to awards eligibility rules should not dilute the significance of the achievement represented by merit-based awards.

3. Transparency

The criteria for granting awards should be clear, public, and easy to understand. Students should be able to determine in advance of registration whether or not they will be eligible for awards.

4. Administrative Efficiency

The administration of awards programs should not be an undue burden on the University's resources, relative to the impact on students.

Dr Burr advised that they had also surveyed other Canadian post-secondary institutions practices in this area. The results of the survey revealed that there is no clear consensus as to whether and how summer courses are considered in awards adjudication processes in Canadian post-secondary educational institutions. While the majority of institutions do not consider summer session courses in adjudicating awards, a significant number do take summer session courses into account, at least in some circumstances.

Dr Burr further advised that his Committee had reached out to all the faculties, 9 replied. We have also requested data from PAIR. He noted that some faculties expressed skepticism that a change would make a difference.

Dr Burr stated that once the Committee has had an opportunity to review the results of the request to PAIR, the Committee will consider the implications of that data for different possible policy changes. The Committee will assess the potential impact of different changes and determine whether any promising options for policy change can be identified. The Committee will then seek an opinion from the Registrar on the impact of any such changes. The Committee will ask the Registrar to advise on the practicalities of implementing any such changes, both within the current Student Information System and within the Workday platform, and to leverage the expertise within Enrolment Services to offer guidance on the impact of any possible changes on students and on adjudication processes.

If, based on the opinion of the Registrar, there remain policy changes worth considering, the Committee will then seek the input of the Academic Policy Committee and other relevant Senate



Committees before proposing possible changes to the Faculties, representative student bodies and other stakeholders through a campus-wide consultation process. Subject to the results of this consultation process, the proposed changes would then be proposed to Senate for approval.

Senator Loewen said that if the committee made a decision to make no changes they should report back to the Senate on that basis.

Senator Burr agreed and said that was their intent.

Curriculum Committee

The Chair of the Senate Curriculum Committee, Dr Peter Marshall, presented.

APRIL CURRICULUM REPORT

See Appendix B: Curriculum Report

Peter Marshall	}	<i>That the new courses, revised courses, revised program option, and discontinuation of admittance to a major brought forward by the faculties of Arts, Education, Land and Food Systems, and Science be approved.</i>
Michael Isaacson		

Dr Marshall presented a summary of the proposed curriculum changes.

Approved

NEW CERTIFICATES

Dr Marshall said that these were existing programs that were never officially approved. His Committee had reviewed the certificates and finding them to be appropriate, has approved them retrospectively:

- Certificate in Early Years Education (EYED)
- Certificate in Infant Development and Supported Childcare (IDSC)
- Certificate in Health and Wellness
- Undergraduate Certificate in Textiles Studies
- Certificate in Teaching About Visual and Material Culture
- Certificate in Teacher Librarianship (LIBE)
- Certificate in Teaching English as a Second Language (TESL)

Adjournment

Seeing no other business, the meeting was adjourned at 7:22 pm.



Appendix A: Awards Report

NEW AWARDS – ENDOWED

B. Ann Hilton Fellowship in Nursing

A \$1,200 fellowship has been made available through an endowment established by B. Ann Hilton (B.S.N. 1968, M.S.N., Ph.D.) for outstanding graduate students in the School of Nursing. Dr. Hilton began her nursing career in Toronto, working in the nursing research unit at Sunnybrook Hospital. She became a faculty member at the University of Toronto. In 1974 she joined UBC as an Assistant Professor in the School of Nursing. Dr. Hilton was promoted to Associate Professor and Full Professor, and retired in 2005 as a Professor Emerita. Her research focused on how individuals and families cope with life-threatening and chronic illnesses. A major focus was on coping with uncertainty. She authored numerous peer-reviewed publications. Her research was supported by many provincial and national grants. She was well known for her expertise in program evaluation. Dr. Hilton was actively involved in several nursing organizations including the Canadian Association of Nurses in Oncology, the International Society of Nurses in Cancer Care and Sigma Theta Tau (The International Honor Society of Nurses). The fellowships are made on the recommendation of the School of Nursing, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2019/2020 winter session).

Derek Norton Thunderbird Rugby Award

One or more awards, which may range from a minimum value of \$500 each to the maximum allowable under athletic association regulations, have been made available through an endowment established by friends and business colleagues of Derek Norton, for outstanding current or incoming student-athletes that display exemplary leadership, strong character and dedication to the sport of rugby. This award was established in recognition of Derek Norton's contributions to the real estate financing sector and his strong support, commitment and passion for rugby in Canada. The awards are made on the recommendation of the Head Coaches of the Men and Women's Rugby Teams, with review and approval by the Athletics' Awards Committee. (First Award Available in the 2019/2020 Winter Session.)

Nicholas S. Sawchen Graduate Scholarship in Slavic Studies

Scholarships totalling \$12,000 have been made available through an endowment established by an estate gift from Nicholas Stephen Sawchen for graduate students in the Faculty of Arts, who are pursuing research related to Slavic countries. The scholarships are made on the recommendation of the Faculty of Arts, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2019/2020 winter session).

Nicholas S. Sawchen Undergraduate Award in Slavic Studies



Awards totalling \$2,600 have been made available through an endowment established by an estate gift from Nicholas Stephen Sawchen for undergraduate students in the Faculty of Arts who have excelled in a Slavic culture, language or literature course and are in good academic standing. The awards are made on the recommendation of the Department of Central, Eastern and Northern European Studies. (First award available for the 2019/2020 winter session)

NEW AWARDS – ANNUAL

Steve Alisharan Memorial Award

A \$1,100 award is offered annually by friends, family and colleagues in memory of Steve Aliasharan (B.A. 1971, CPA) for Masters of Business Administration and Masters of Management students who have demonstrated leadership, community service and volunteerism. Steve taught at the UBC Sauder School of Business for over thirty years. He won several awards in recognition of his teaching, including the M.B.A. Teaching Excellence Award and the Arne Olsen Award for Career Teaching Excellence. Steve was integral to the development of the UBC M.B.A. Core program and the implementation of capstone projects in the M.B.A. and M.M. programs. This award was established in recognition of Steve's contributions to the UBC Sauder School of Business. The award is made on the recommendation of the UBC Sauder School of Business. (First award available for the 2019/2020 winter session).

BC Centre on Substance Use Medical Undergraduate Award

A \$1,000 award is offered annually by the BC Centre on Substance Use (BCCSU) to a first-year M.D. student with outstanding academic achievement and demonstrated community involvement. Preference will be given to students who have shown a commitment to addiction medicine and/or working with populations affected by substance use. The BCCSU is committed to supporting education, clinical experience, and research in addiction medicine. They value the importance of providing training opportunities for clinician-scientists in addiction medicine. The award is made on the recommendation of the Faculty of Medicine. (First award available for the 2019/2020 winter session.)

Bursary for Teachers – University Courses in French

Bursaries of up to \$2,000 are offered annually to graduate students enrolled in the French Master of Education in Modern Languages in the Faculty of Education. Recipients must be currently employed by a BC School district or independent school (including Teachers on Call) and enrolled in courses taught in French. The bursaries are adjudicated by the Department of Language & Literacy Education, in consultation with Enrolment Services. (First award available for the 2019/2020 winter session).



Administrative note: The Ministry of Education has provided UBC with funding for these bursaries. The naming of this bursary does not follow agreed naming conventions but is based on the contract provided by the Ministry of Education for ease of administration.

Butterfield Scholarship in Medicine

Scholarships totalling \$6,900 are offered annually, through an endowment established by an estate gift from Hilda Dorothy May Butterfield and held at the University of Victoria, for outstanding M.D. students in the Island Medical Program at the University of British Columbia. The scholarship is made on the recommendation of the Faculty of Medicine. (First award available for the 2019/2020 winter session.)

Edna Dharmaratne Award in Linguistics

An award of \$1,000 is offered annually by alumni, faculty, students and staff of the Department of Linguistics in honour of Edna Dharmaratne for undergraduate and graduate students in the Department of Linguistics who have achieved good academic standing and demonstrated volunteerism. Financial need may be considered. Edna Dharmaratne served as the Administrator of the Department of Linguistics from 1997 to 2017. She was the face and cornerstone of the Department, and is admired for strength of character and generosity. This award was established in recognition of Edna's legacy of compassion, competence and integrity. The award is made on the recommendation of the Department of Linguistics, and in the case of a graduate student, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2019/2020 winter session).

Dr. Marion Porath Memorial Award in Voice and Opera

Awards totalling \$3,000 are offered annually by Merv Porath in memory of his wife Dr. Marion Porath (B.Ed. 1974, M.A. 1984, Ph.D.) to two or more outstanding undergraduate or graduate students studying within the Voice and Opera division at the School of Music. Financial need may be considered. Professor Emerita Porath taught at UBC for 25 years and was an award-winning teacher, scholar, and researcher. Dr. Porath received her Bachelor of Education and Master of Arts degrees at UBC and earned her Ph.D. from the University of Toronto in 1988. Dr. Porath's arts-based research led to her work with the UBC Opera and young opera singers. The award is made on the recommendation of the Voice and Opera division in the School of Music and, in the case of graduate students, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available in the 2019/2020 winter session.)

Entrée Canada Centennial Indigenous Leaders Award

A \$20,000 renewable entrance award is offered annually by Entrée Canada for First Nations, Inuit, or Métis undergraduate students of Canada entering university directly from secondary school or transferring from another post-secondary institution to an undergraduate program of study. Preference will be given to students from British Columbia. Recipients are academically



qualified with preference to students who would not be able to attend UBC without financial assistance. In addition to academic merit, consideration is given to qualities such as leadership skills, community service and recognized extra-curricular achievement. Subject to continued academic standing, the award will be renewed for a further three years of study or until the first undergraduate degree is obtained (whichever is the shorter period). Entrée Canada is a leading travel company based in Vancouver that specializes in creating exceptional experiences across Canada for their discerning clientele. Entrée Canada works to promote understanding and awareness of Indigenous history among their guests, and established this award to support future Indigenous leaders. The awards are made on the recommendation of the Centennial Scholars Entrance Award Committee. (First award available for the 2019/2020 winter session).

Leon and Joan Tuey Graduate Scholarship

Scholarships totalling \$6,000 are offered annually by Leon and Joan Tuey for outstanding graduate students in the Faculty of Education. The scholarships are made on the recommendation of the Faculty of Education in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2019/2020 winter session).

PREVIOUSLY APPROVED AWARDS WITH CHANGES IN TERMS OR FUNDING SOURCE

Annual Awards

1460 – Rebecca Vecchio Memorial Award

Rationale for Proposed Changes

The United Food and Commercial Workers Internal Union has increased their giving to support an additional award assignment for the upcoming academic year. An additional \$1,000 a year will be given to support two \$1,000 award for students.

Current Award Description

A \$1,000 award is offered annually by UFCW Local 1518 for students who are committed to gender equality in actions and behaviours and who advocate against bullying and violence against women. The award is for students who demonstrate these ideals through action by working to foster a safer and more respectful campus community. Recommendations are made by the Equity and Inclusion Office and the Sexual Assault Prevention Team in consultation with Enrolment Services.

Proposed Award Description

Two \$1,000 awards **is** are offered annually by UFCW Local 1518 for students who are committed to gender equality in actions and behaviours and who advocate against bullying and violence against women. The awards **is** **are** for students who demonstrate these ideals through



action by working to foster a safer and more respectful campus community. Recommendations are made by the Equity and Inclusion Office and the Sexual Assault Prevention Team in consultation with Enrolment Services.



Appendix B: Curriculum Report

FACULTY OF ARTS

New courses

ASIA 436 (3) The Partition of India in Film and Narrative;
CHIN 195 (1) Chinese Characters I;
GERM 105 (6) Intensive Beginners' German;
GERM 121 (3) German Fairy Tales and Popular Culture (in English);
GERM 404 (3) Religion and German Literature (in English);
RUSS 303 (3) Topics in Russian Culture (in English);
SOCI 230 (3) Shopping, Society, and Sustainability

FACULTY OF EDUCATION

New courses:

KIN 432 (3) Sport Nutrition;
KIN 459 (3) Psychobiology of Physical Activity

FACULTY OF LAND AND FOOD SYSTEMS

New course

FRE 474 (3) Economics of Global Resource Use and Conservation

Revised program option

LFS>Dual Degree and Minor Options> Master of Management Dual Degree Program Option

Discontinuation of admittance into a major

LFS>B.Sc. in Food, Nutrition, and Health>Food Market Analysis Major

FACULTY OF SCIENCE

New courses

BIOC 470 (3) Biochemistry & Society: Current Issues;
BIOL 314 (3) Elements of Biodiversity;
CHEM 250 (3) Inorganic Chemistry for Engineers;
CPSC 330 (3) Applied Machine Learning;
CPSC 427 (3) Video Game Programming;
EOSC 410 (3) Geoscientific Data Analysis and Empirical Modeling;
ENPH 353 (3) Engineering Physics Project I;
FSCT 398 (3) Co-op Work Placement I;
FSCT 399 (3) Co-op Work Placement II;
FSCT 412 (3) Instrumental Analysis for Forensic Chemistry;
FSCT 498 (3) Co-op Work Placement III;
FSCT 499 (3) Co-op Work Placement IV;
GEOB 408 (3) The Changing Cryosphere;
GEOB 409 (3) Advanced Field Studies in Geographical Sciences;
ISCI 461 (3) Comparative Field Research Course: Systems Approaches to Regional Sustainability;
MICB 413 (3) Topics in Microbiome Research