

Vancouver Senate
THE SEVENTH REGULAR MEETING OF THE
VANCOUVER SENATE
FOR THE 2018/2019 ACADEMIC YEAR
WEDNESDAY, 20 MARCH 2019
6:00 P.M.
ROOM 182, IRVING K. BARBER LEARNING
CENTRE, 1961 EAST MALL

1. **Call to Order and Territorial Acknowledgement – Mr Jakob Gattinger** (information)
2. **Minutes of the Meeting of 13 February 2019 – Mr Jakob Gattinger** (approval)
(docket pages 3-21)
3. **Business Arising from the Minutes – Mr Jakob Gattinger** (information)
4. **Tributes Committee – Dr Sally Thorne**
Memorial Minute for Dr Bikkar Singh Lalli (approval) (docket pages 22-23)
5. **Remarks from the Vice-Chair– Mr Jakob Gattinger** (information)
6. **Presentation of Certificates of Thanks to 2018-2019 Student Members of Senate**
(information)
7. **Academic Policy Committee – Dr Paul Harrison**
Emeritus College Terms of Reference (approval) (docket pages 24-31)
8. **Awards Committee – Dr Lawrence Burr**
New and Revised Awards (approval) (docket pages 32-37)
9. **Joint Report of the Admissions and Curriculum Committees – Prof. Carol Jaeger and Dr Peter Marshall**
Establishment of the Bachelor of Pharmaceutical Sciences (approval) (docket pages 38-83)

**10. Curriculum Committee – Dr Peter Marshall**

Curriculum Proposals from the Faculties of Applied Science, Arts, Commerce and Business Administration, Graduate and Postdoctoral Studies, Peter A. Allard School of Law, Medicine, and Science. (approval) (docket pages 84-120)

11. Nominating Committee – Dr Richard Tees

Establishment of a Senate Research Committee (approval) (docket pages 121-126)

12. Report from the Provost – Dr Andrew Szeri

- a) Quality Assurance Process Audit Institutional Response (approval) (docket pages 127-147)
- b) Presentation on Enrolment Planning Overview (information)

13. Other Business

Notice of Motion – Ms Jeanie Malone

That the Senate refer a discussion of inter-campus mobility and cross-campus academic collaboration to the Council of Senates, and authorize the Council to receive and discuss once-per-triennium reports on these topics.

VANCOUVER SENATE

MINUTES OF 13 FEBRUARY 2019

DRAFT

Attendance

Present: Dr S. Ono (Chair), Dr K. Ross (Secretary), Dr P. Adebar, Dr S. Bates, Dr R. Boushel, Dr G. Faulkner, Dr S. Forwell, Dean B. Frank, Dr I. Frigaard, Mr J. Gattinger, Dr J. Gilbert, Ms S. Gilbert, Dr C. Godwin, Ms K. Gourlay, Dr S. Grayston, Dr V. Griess, Ms M. Hamid, Dr P. Harrison, Mr M. Holmes, Dr A. Ivanov, Prof. C. Jaeger, Dr P. Keown, Dr A. Kindler, Dr M. Koehoorn, Dr M. Kuus, Mr M. Leuprecht, Dr K. Lo, Dr P. Loewen, Dr D. MacDonald, Dean M. MacDougall, Ms J. Malone, Dr P. Marshall, Dr S. Matsui, Ms S. Ngo, Mr N. Pang, Ms S. Parker, Dr J. Shepherd, Ms A. Shilling, Dr S. Singh, Mr A. Starr, Mr C. Surniawan, Dr A. Szeri, Ms A. Tanner, Dr R. Tees, Dr M. Thachuk, Dr S. Thorne, Dr M. Upadhyaya, Ms H. Xiao, Dean R. Yada

Regrets: Dean G. Averill, Ms P. Chan, Dean M. Coughtrie, Dean C. Dauvergne, Dean R. Helsley, Dr C.W. Marshall, Dr A. Murphy

Clerk: Mr C. Eaton

Call to Order

The Chair of Senate, Dr Santa Ono, called the sixth regular meeting of the Vancouver Senate for the 2018/2019 Academic Year to order at 6:09 pm.

Senate Membership

The Registrar announced that Mr J. Maximillian Holmes was acclaimed as elected to the Senate Nominating Committee until 31 March 2019 and thereafter until replaced.

Minutes of 16 January 2019

Susan Parker
Jakob Gattinger

}

That the Minutes of the Meeting of 16 January 2019 be adopted as proposed.

Approved

Remarks from the Chair

The President noted that last week he was in Ottawa, for UBC's annual Day on the Hill, raising awareness among our federal government partners about outstanding UBC research, researchers, and students. One of the groups we spoke to was the federal Liberal British Columbian caucus, where our presentation on the need to extend the Millennium SkyTrain line to UBC was well received. Further to the SkyTrain extension; Dr Ono advised that we have had mostly positive feedback to the recent public opinion poll that shows 82 percent support for the extension. We are continuing our efforts to advocate for this much-needed transit expansion.

Dr Ono advised Senate that last week he had the honour of giving a keynote address to the School Community Mental Health Conference in Vancouver, organized by the provincial Ministry of Education, where he spoke about his personal experiences as well as UBC's leadership role in mental health education.

Last night author Michael Pollan spoke as part of the UBC Connects speaker series to a sold-out audience at Vancouver's Orpheum Theatre. The next UBC Connects event will be in Kelowna, when Tarana Burke speaks about the Me Too movement on March 6.

The President reminded Senate that Ms Robin Ciceri would join UBC as Vice-President, External Relations on March 1, and Mr Ainsley Carry as Vice-President, Students on April 1.

In closing, Dr Ono said that he was pleased to note that UBC has been once again named as one of Canada's top employers of young people – the only post-secondary institution to make the list in 2019. We were also ranked the top choice for students enrolled in international schools. UBC has also been ranked second in the country for research universities. Dr Ono expressed his pride for the faculty and staff of this university who have helped us achieve these rankings.

Candidates for Degrees

Philip Loewen	}	<i>That the candidates for degrees as recommended by the Faculty of Graduate and Postdoctoral Studies be granted the degrees for which they were recommended, effective February 2019, and that a committee comprised of the Registrar, the dean of the faculty and the Chair of the Vancouver Senate be empowered to make any necessary adjustments.</i>
Maximillian Holmes		

Approved



Tributes Committee

The Chair of the Senate Tributes Committee, Dr Sally Thorne, presented.

MEMORIAM MINUTE FOR DR ANNE POMEROY AUTOR

Dr. Dorothy Anne Pomeroy Autor Born in Prince George January 26, 1935 to Alfred and Mary Pomeroy, Dr. Autor earned both a B.A. Hons and a M.Sc. in Biochemistry at the University of British Columbia. She completed her Ph.D. in Biochemistry at Duke University in 1970 where she was the only woman in her doctoral program. She married Kent Autor in 1957; they had two children together and were divorced in 1978. Dr. Autor passed away November 13, 2018.

After completing her studies Dr. Autor held multiple faculty positions in the United States. She returned to UBC in 1983 as a tenured professor in the Department of Pathology and Laboratory Medicine and as a clinical researcher at St. Paul's Hospital. She was member of the Senate from 1990 to 1996. In addition to her university and hospital laboratories she opened the first DNA forensic lab in the Province.

Having travelled the world throughout her academic career, Dr. Autor retired from UBC in 2000 to teach in the United Arab Emirates and Pakistan. Dr. Autor permanently retired in 2004, returning to Vancouver to spend time with family, and to co-manage her family's ancestral farm in Pemberton.

As a pioneering woman in science, Dr. Autor provided mentorship to younger women entering the profession and helped launch the careers of a large number of graduate students. Dr. Autor was also active in many professional organizations, often in leadership positions, and engaged in many volunteer and appointed roles. She served on the Board of Directors of the St. Paul's Hospital Foundation; the Board of Governors of the Law Foundation of BC; and, the Board of Trustees of the Vancouver Art Gallery among many other roles. She was one of the first two women members of the Vancouver Round Table, a civic organization of prominent British Columbians from business, government, and academia.

To her family and friends, the Senate and the University of British Columbia offer their condolences and thanks.

Sally Thorne

Michael Isaacson

}

That Senate approve the Memorial Minute for Dr. Anne Pomeroy Autor, that it be entered into the Minutes of Senate, and that copies be sent to the family of the deceased.

Approved

Academic Building Needs Committee

The Chair of the Senate Academic Building Needs Committee, Dr Michael Isaacson, presented.

SUITABILITY AND USAGE OF LEARNING SPACES

Michael Isaacson	}	<i>That the report of the Senate Academic Building Needs Committee titled “Suitability and Usage of Learning Spaces” be received.</i>
Richard Tees		

Approved

Dr Isaacson went over the following concepts in his presentation: utilization vs occupancy, tiered access for space booking, establishing learning spaces, quality of learning Spaces, assignment, reassignment and specified usage of learning spaces, use of restricted space/classrooms and classroom scheduling

Senator Singh suggested that the quality in space is quite different between newer and older buildings. As an example, he brought up Wesbrook Senate; Building operations was quick to respond but an actual fix for some issues took a lot of time.

With permission of Senate, Jodi Scott from facilities planning spoke, saying that said they prioritized academic buildings already for repairs.

Dr Szeri asked if there were accessibilities issues found in the consultation process.

Dr Isaacson said that yes, some were found. He noted that UBC had comprehensive guidelines around accessibility.

Ms Scott said that the Learning Space guidelines had a section on accessibility to ensure we meet or exceed the code. Sometimes older buildings do not have the easiest opportunities.

Senator Forwell said that accessibility was often thought of in terms of wheelchairs, but doors or visual issues were equally important. These may not be huge costs but would require initiatives. Senator Forwell said that we have a long-standing issue around large classroom spaces and asked if we had a long-term plan for increased our larger teaching spaces.

Dr Szeri said that we were in discussion with the Board of Governors to develop a funding stream for academic capital projects. Things that we haven't been able to fund adequately with provincial or private funding.

Senator Harrison said that the Thursday break was important and going faculty-by-faculty would add bearers to students who partake in faculties or courses others than their own. UBC needs to show that the University values activities beyond courses.

Dr Isaacson agreed but said that it was a matter of relative priorities.

Senator Starr said that the graph for room demand vs availability showed deficit for larger classrooms but a surplus for smaller classes. There may be opportunities to encourage teaching of smaller classes. The investment in this case would then be people instead of buildings.

Senator Frigaard said that the Senate should clarify the priority that research seminars have for booking. This was impractical for one off-research seminars.

Dr Isaacson said some where senate approved and some were not, that wasn't a statement on their value.

Senator Loewen said that he agreed on behalf of math that research seminars should have the same priority as credit classes.

Senator Lo spoke in favour of the Thursday break and it being university-wide. Secondly he said that building more large classrooms would not solve the problem. A lot of the issue is budget constraints, it could induce demand. He suggested that Senate and the faculties needed consider what optimal class sizes are to better inform our space decisions. .

Admissions Committee

The Chair of the Senate Admissions Committee, Professor Carol Jaeger, presented.

VANTAGE COLLEGE – TRANSFER AND ADVANCE CREDIT

Carol Jaeger	}	<i>That Senate approve transfer and advance credit for applicants to the Vantage Program, effective for the 2019 Winter Session and thereafter.</i>
Jakob Gattinger		

Professor Jaeger said that this proposal would control advanced credit (e.g., IP/AB) based on program.

Approved

MASTER OF MANAGEMENT DUAL DEGREES

Carol Jaeger	}	<i>That Senate approve changes in admission</i>
Paul Harrison		<i>requirements for applicants to the Undergraduate</i>
		<i>Program/Master of Management Dual Degree</i>
		<i>Program Option, effective for entry to the 2019</i>
		<i>Summer Session and thereafter.</i>

Senator Harrison raised the issue of academic regulations only referring to Commerce. He suggested that it needed to refer to all of the participating faculty academic regulations as well.

Senator Lo said that it only referred to the Commerce and Business Administration Master of Management rules; the individual undergraduate regulations would still apply.

The Chair suggested that the Academic Policy Committee review the language to ensure there was not an issue.

Approved

ENROLMENT TARGETS

Carol Jaeger	}	<i>That Senate approve and forward to the Board of</i>
Amber Shilling		<i>Governors for approval the 2019/2020</i>
		<i>Undergraduate Enrolment Targets, as per section</i>
		<i>27(2)(r) of the University Act.</i>

Senator Loewen asked why Vantage full-time enrolment was dropping.

With permission of Senate, Dr Pamela Ratner replied, saying that firstly we had suspended admission to the Management Stream, and secondly, the Board had asked that the administration work to stabilize international enrolment in its proposals for this year.

Approved

Agenda Committee

The Chair of the Senate Agenda Committee, Mr Jakob Gattinger, presented.

2019/2020 SENATE MEETING SCHEDULE

Mr Gattinger advised that pursuant to Rule 17 (a) of the *Rules and Procedures of Senate*, the Senate meeting schedule for 2019-2020 will be as follows:

- Wednesday September 18, 2019
- Wednesday October 16, 2019
- Wednesday November 20, 2019
- Wednesday December 18, 2019
- Wednesday January 15, 2020
- Wednesday February 12, 2020
- Wednesday March 18, 2020
- Wednesday April 15, 2020
- Wednesday May 13, 2020

Awards Committee

A Vice-Chair of the Senate Awards Committee, Ms Katie Gourlay, presented.

AWARDS REPORT

See Appendix A: Awards Report

Katie Gourlay	}	<i>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.</i>
John Shepherd		

Dr Gourlay said that the awards committee was currently consulting on use of summer awards and have sent correspondence to the deans for their feedback.

Approved

Curriculum Committee

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

FEBRUARY CURRICULUM REPORT

See Appendix B: Curriculum Report

Nor Marshall noted an error on page 82 – Course should be FOOD 519, not FRST500.



Peter Marshall
Susan Forwell

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That the new courses, revised courses, deletion of specialization, new Minor, revised minors, revised program requirements, and revised streams brought forward by the faculties of Applied Science, Arts, Commerce and Business Administration, Education, Forestry, Graduate and Postdoctoral Studies (Applied Science, Arts, Commerce and Business Administration, Forestry, Land and Food Systems – with FOOD519 in place of FRST500, Science), Land and Food Systems, and Science be approved.

Approved

NEW CERTIFICATES

Dr Marshall advised Senate that the Senate Curriculum Committee had approved the following new certificates on behalf of the Senate:

Certificate in Financial Economics

Certificate in International Politics

Certificate in International Relations

Certificate in General Arts Studies

Nominating Committee

The Chair of the Senate Nominating Committee, Dr Richard Tees, presented.

COMMITTEE ADJUSTMENTS

Richard Tees
 Jakob Gattinger

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That Mr Christian Surniawan be appointed to the Student Appeals on Academic Discipline Committee until 31 March 2019 and thereafter until replaced, to replace Ms. Ainsley MacDougall; and

That Mr Matthias Leuprecht be appointed to the Senate Awards Committee until 31 March 2019 and thereafter until replaced, to replace Mr Christian Surniawan

Approved

Report from the Provost

PETER WALL INSTITUTE FOR ADVANCED STUDIES

The Provost, Dr Andrew Szeri, advised that he had been asked by the Senate Academic Policy Committee to provide an update on this matter. He noted that the Institute Board of Trustees was in the process to appoint an interim director of the institute, a position needed to be filled for the external review ordered. Last week, he met with around 20 Wall Scholars where he discussed the review process with them and important factors in the review.

The President added that Peter Wall trustees hoped to publish their process for appointing that director later this week.

Report from the Registrar

2019-2020 ACADEMIC YEAR

In accordance with Senate Policy V-125, the Registrar, Dr Kathleen Ross, announced the following term dates for 2019-2020 were confirmed:

2019/20 WINTER SESSION

Term 1 begins
 Last day of Term 1 classes for most faculties
 First day of exams for Term 1
 Last day of exams for Term 1
 Number of Teaching Days

Tuesday, September 3, 2019
 Friday, November 29, 2019
 Tuesday, December 3, 2019
 Wednesday, December 18, 2019
 62

Term 2 begins	Monday, January 6, 2020
Mid-term break	February 17 – February 21, 2020
Last day of Term 2 classes for most faculties	Wednesday, April 8, 2020
First day of exams for Term 2	Tuesday, April 14, 2020
Last day of exams for Term 2	Wednesday, April 29, 2020
Number of Teaching Days	63

2020 SUMMER SESSION

Term 1 begins	Monday, May 11, 2020
Last day of Term 1 classes for most faculties	Thursday, June 18, 2020
First day of exams for Term 1	Monday, June 22, 2020
Last day of exams for Term 1	Friday, June 26, 2020
Number of Teaching Days	28
Term 2 begins	Monday, July 6, 2020
Last day of Term 2 classes for most faculties	Thursday, August 13, 2020
First day of exams for Term 2	Monday, August 17, 2020
Last day of exams for Term 2	Friday, August 21, 2020
Number of Teaching Days	28

Dr Ross states that conversations were still ongoing regarding a new Fall Reading Break, but expressed her satisfaction at the long break available next year between the end of term 1 exams and the start of term 2.

Senator Max Holmes read the following statement to the Senate on behalf of the student members:

Recently, the AMS conducted a consultation amongst students about the options available and the trade-offs necessary to possibly receive a Fall Reading Break and Extended Holiday Break, and over six thousand students participated in that consultation. While important information was gleaned including intense interest from students for a Fall Reading Break and Extended Holiday Break, the work of consultation with students on behalf of a Senate issue should not fall to the AMS or Student Senate Caucus.

Furthermore, this consultation had begun with the understanding that there was a possibility that these changes could be considered for the next Academic Year. Two issues have now been brought to our attention that makes that not possible: the lack of consultation with other affected stakeholders, and potential impacts on employment contracts.

We are concerned by the miscommunication of expectations. We are also concerned by the lack of support provided for consultations on this topic. The onus of consultation for an initiative, one which could benefit multiple stakeholders, should not fall solely on the shoulders of students and should not be resourced by an external society funded by

student fees. However, we are excited to finally have the data to indicate a strong interest and look forward to sharing the full AMS report with the Senate. We are also thankful for the support of the Chair of the Academic Policy Committee to make the AMS consultation possible.

Given the terms of Student Senators which are limited to one year, (per elections); discussions, consultations, and any potential implementation of a Fall Reading Break in a timely fashion are severely restricted by the challenges of Senate timelines and mechanisms.

As such, the Student Senate Caucus would like to propose a working group within the Senate to be created with the mission of exploring the possibility of implementing a Fall Reading Break and Extended Holiday Break through an examination of the Finals Schedule and more. We propose this based on the interest we have heard from the UBC Vancouver student body and support further consultation with faculty, sessional instructors, and TAs. This effort should be undertaken by said working group with the Senate Secretariat. The complete report on the student consultation, which will be published by the AMS, should be taken into consideration and addressed in the findings of the working group.

We strongly believe that the creation of such a body will signal to the larger community a genuine commitment to address students and the wider UBC community's needs and concerns. We look forward to seeing the progress that can be made beginning with the creation of this working group.

Senator Holmes added that he did not think a fall reading week will be possible next year, and advised the Senate that he had read over 800 comments in response to the survey mentioned above; and that 25% of the comments were for in support of the break for mental health reasons.

Senator Singh said that the propose Fall Break would result in the term ending very close to Christmas.

Senator Harrison thanked Senator Holmes for his work on this issue. He suggested that we are closer than we have been to finding a way for a Fall Break to work; the large issue remaining to be resolved was the number of days we apply for finals. He noted that the AMS survey was based on a preliminary analysis from the exam schedulers and we are waiting for more data. He further noted that exam scheduling also affects mental health.

Senator Thachuk said that it was not the days that matters it was the hours. He suggested we could change the class schedule to have more lectures in fewer weeks.

The Registrar noted our low number of teaching days. We have also considered starting earlier, having exams on Sunday, or shortening the break between classes and exams. She reminded the Senate that these were all tradeoffs.



Senator Kindler said that we are tremendously attached to credit hours that is based in historical models that do not reflect modern teaching. She suggested that this could be a good moment to reflect how changes in pedagogy and curriculum can help solve this problem.

Adjournment

Seeing no other business the meeting was adjourned at 7:29 pm.

Appendix A: Awards Report

NEW AWARDS – ENDOWED

Robert and Barbara Atkinson Thunderbird Men's Basketball Award

One or more awards, which may range from a minimum value of \$500 each to the maximum allowable value under athletic association regulations, have been made available through an endowment established by Robert and Barbara Atkinson along with matching funds from the University British Columbia. These awards are offered to outstanding members of the Thunderbird Men's Basketball team in any year of study who are in good academic standing and have demonstrated excellent leadership skills. Awards are made on the recommendation of the Athletics Awards Committee. (First Award Available in the 2019/2020 Winter Session.)

Louise Cowin Thunderbird Women's 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 Peter Bull, along with matching funds from the University of British Columbia, in recognition of Louise Cowin. During her time as the Vice-President, Students Louise displayed tremendous dedication and support for Thunderbirds Athletics. Awards are offered to current or incoming members of the Thunderbirds Women's Rugby Team that display exemplary leadership, strong character, and dedication. The awards are made on the recommendation of the Women's Head Coach with review and approval by the Athletics Awards Committee. (First award available in the 2019/2020 winter session.)

Doctors of BC Presidential Scholars Award in Medicine

Renewable entrance awards totalling \$80,000 have been made available through an endowment established by Doctors of BC, with a portion of the funds being matched from the University of British Columbia, for outstanding students entering the M.D. undergraduate program. Criteria for these entrance awards include demonstrated academic and leadership achievements in the arts, community, athletics, or school. Preference will be given to students whose community involvement or volunteerism emphasizes healthcare. Subject to continued scholarship standing, the awards will be renewed for a further three years of study or until the M.D. degree is obtained (whichever is shorter). Representing over 14,000 physicians, residents and medical students, Doctors of BC works to promote the highest standard of healthcare by providing its members with the services and support they need to enhance their professional experience. The award is made on the recommendation of the Faculty of Medicine. (First award available in the 2019/2020 winter session.)

Doctors of BC Bursary in Medicine

Bursaries totalling \$4,000 have been made available through an endowment established by Doctors of BC, along with matching funds from the University of British Columbia, for M.D. students. Representing over 14,000 physicians, residents and medical students, Doctors of BC works to promote the highest standard of healthcare by providing its members with the services and support they need to enhance their professional experience. The bursaries are adjudicated by Enrolment Services. (First award available in the 2019/2020 winter session.)

Milena and Kvetoslav Janda Memorial Award in Opera

Awards totalling \$4,000 have been made available through an endowment established by family and friends in memory of Milena and Kvetoslav Janda for undergraduate and graduate students in the UBC School of Music who are talented singers pursuing a degree in Opera. Financial need may be considered. Milena Janda (B.A. 1956) displayed her passion for the arts through her various



endeavours, including writing children's plays, founding a theatre, and coaching generations of opera singers at UBC in Czech. Kvetoslav Janda (B.Com. 1955) was a political activist in Czechoslovakia before becoming a public servant in Canada. The awards are made on the recommendation of the Opera Division in the UBC 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.)

Mills Munroe Southern Medical Program Bursary

Bursaries totalling \$2,000 have been made available through an endowment established by Dorothy Mills and her daughter Karina Munroe, along with matching funds from the University of British Columbia, for M.D. students enrolled in the Faculty of Medicine Southern Medical Program at the University of British Columbia. The bursaries are adjudicated by Enrolment Services. (First award available in the 2019/2020 winter session.)

Dr. John Nasedkin Award in Dentistry

Awards totalling \$1,640 have been made available through an endowment established by friends and family in memory of Dr. John Nasedkin for outstanding fourth-year Doctor of Dental Medicine students. The recipient will demonstrate interdisciplinary clinical proficiency and comprehensive patient care, as well as uncompromising ethical standards. They will be a collaborative student, an excellent communicator and an innovative thinker. Dr. John Nasedkin received numerous accolades, awards and certifications throughout his career, including the Canadian Academy of General Dentistry Dentist of the Year award in 2014. This award recognizes Dr. Nasedkin's legacy as an exceptional dentist and remarkable man who loved his profession and sharing his knowledge. This academic award is made on the recommendation of the Faculty of Dentistry. (First award available in the 2019/2020 winter session.)

NEW AWARDS – ANNUAL

Keith Bennett and Lloyd Doidge Memorial Scholarship in Labour-Management Relations

Scholarships totalling \$6,000 are offered annually by FIR Labour Relations Ltd. in memory of Keith Bennett and Lloyd Doidge, for outstanding undergraduate students in the Bachelor of Commerce, Organizational Behaviour and Human Resources option, who intend to enter a career in labour-management relations. Recipients must be Canadian citizens or permanent residents. Forest Industrial Relations Ltd. (FIR Ltd.) is an accredited employers association which has served the BC forest products industry since 1943. Keith Bennett (B.Com. 1956) was President of FIR Ltd. from 1974 until his retirement in 1997. For 25 years, he served as Chief Negotiator for the BC forest industry, bargaining industry-wide collective agreements with the Industrial, Wood and Allied Workers Union. Lloyd Doidge (B.Com. 1962) was a highly respected labour lawyer, with much of his work involving representing forest industry employers in labour arbitration. He served as General Counsel at FIR Ltd., and was also an adjunct professor in the UBC Sauder School of Business. Both men were well-regarded within the BC industrial relations community for their work in labour-management relations. The scholarships are made on the recommendation of the UBC Sauder School of Business. (First award available in the 2019/2020 winter session.)

George Weston Ltd. Doctoral Fellowship

Three doctoral fellowships of \$20,000 each are offered annually by George Weston Limited to students in Land and Food Systems conducting research relevant to sustainable agriculture. The fellowships are made on the recommendation of the Faculty of Land and Food Systems in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available in the 2018/2019 winter session.)



Liu Ruo Xi Vocal Music Arts Center Award in Voice and Opera

A \$4,000 award is offered annually by the Liu Ruo Xi Vocal Music Arts Center for an outstanding undergraduate Voice and Opera student in the UBC School of Music who demonstrates exceptional vocal talent, community involvement and leadership ability. The Liu Ruo Xi Vocal Music Arts Center is led by award winning soprano Liu Ruo Xi. Ms. Liu and her husband Ye Hongtao have a background in and a deep appreciation for traditional Chinese folk music and hope that this award will inspire UBC Voice and Opera students to explore the richness and diversity of traditional Chinese folk music. This academic award is made on the recommendation of the UBC School of Music. (First award available in the 2018/2019 winter session.)

PREVIOUSLY APPROVED AWARDS WITH CHANGES IN TERMS OR FUNDING SOURCE

ANNUAL AWARDS

3792 – PharmaChoice West Award in Pharmaceutical Sciences

Rationale for Proposed Changes

PharmaChoice has two divisions, PharmaChoice West and PharmaChoice East. This award was previously established under the name of PharmaChoice West. The company has since decided that the award is supported by both divisions resulting in the removal of “West” and the addition of “Canada Inc.” to reflect the most accurate name.

Current Award Description

A \$1,400 award is offered by PharmaChoice West for a student in the third year of the undergraduate program in the Faculty of Pharmaceutical Sciences who demonstrates leadership skills and has an interest in community practice. Preference is given to those students who graduated from a high school in British Columbia but outside of the metro Vancouver area. The award is made on the recommendation of the Faculty of Pharmaceutical Sciences.

Proposed Name: PharmaChoice Canada Inc. West Award in Pharmaceutical Sciences

Proposed Award Description

A \$1,400 award is offered annually by PharmaChoice Canada Inc. West for a student in the third year of the undergraduate program in the Faculty of Pharmaceutical Sciences who demonstrates leadership skills and has an interest in community practice. Preference is given to those students who graduated from a high school in British Columbia but outside of the metro Vancouver area. The award is made on the recommendation of the Faculty of Pharmaceutical Sciences.

**3805 – Canadian Society of Hospital Pharmacists of British Columbia Award*****Rationale for Proposed Changes***

The award was historically awarded in the fall to students entering fourth-year of the Entry-to-Practice PharmD program. To streamline the award adjudication process, the award will now be adjudicated in the spring to students who have just completed third year of the Entry-to-Practice PharmD program.

Current Award Description

Two awards of \$500 each are offered annually by the Canadian Society of Hospital Pharmacists (CSHP), BC Branch to students entering the fourth year of the Entry-to-Practice PharmD program with high academic achievement, current CSHP membership, and a demonstrated interest in hospital pharmacy. The award is made on recommendation of the Faculty of Pharmaceutical Sciences.

Proposed Award Description

Two awards of \$500 each are offered annually by the Canadian Society of Hospital Pharmacists (CSHP), BC Branch to for students who have completed third year entering the fourth year of the Entry-to-Practice PharmD program with high academic achievement, current CSHP membership, and a demonstrated interest in hospital pharmacy. The award is made on recommendation of the Faculty of Pharmaceutical Sciences.



Appendix B: Curriculum Report

FACULTY OF APPLIED SCIENCE

New course

CIVL 303 (3) Computational Tools in Civil Engineering

ARTS

New Minor

Minor in Geography (Environment and Sustainability)

New courses

ARTH 285 (3) Art and the Moving Image; ARTH 331 (3) Greek Art and Architecture; ARTH 332 (3) Roman Art of Architecture; ASIA 206 (3) Modern Islam; ASIA 207 (3) Classical Islam; ECON 398 (3) Introduction to Applied Economics; GEOG 432 (3) Radical Traditions of Decolonization and Liberation; HIST 352 (3) Modern Middle Eastern History; HIST 353 (3-6) d Special Topics in Middle Eastern History; HIST 354 (3) The Ottoman Empire; HIST 404 (3) The First World War; HIST 406 (3) The Second World War; LING 242 (3) Computational Tools for Linguistic Analysis; LING 342 (3) Computational Models of Language

COMMERCE AND BUSINESS ADMINISTRATION

New courses

COEC 475 (3) The Economics & Policy of the Environment, Energy, and Natural Resources; COMM 271 (3) Introduction to Capital Markets; COMM 312 (3) Business Ethics Leadership; COMM 383 (3) Innovation Leadership; COMM 479 (3) Advanced Topics on Corporate Finance

EDUCATION

Revised course

Kin 110 (3) Human Anatomy

New course

KIN 131 (3) Systems Physiology I

Revised degree requirements

Bachelor of Kinesiology > Degree Requirements

Revised streams

Neuromechanical and Physiological Sciences; Social and Behavioural Sciences; Multidisciplinary Science

FORESTRY

New courses

HGSE 360 (3) Ocean People, Culture and Tradition; HGSE 361 (3): Fisheries Co-Management of the North Pacific Coast; HGSE 362 (3): Marine Protected Areas and Marine Spatial Planning; HGSE 363 (3): Applications in Marine Conservation; HGSE 364 (3): Haida Gwaii Marine Conservation Seminar

Deletion of specialization

Forest Resources Management Major (Specialization in International Forestry)

New courses



FRST 422 (3) Mathematical Modelling in Forest Resource; FRST 423 (6) Integrated Resources Management Planning

Revised course

FRST 497 (3) Communications and Professionalism

FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

Applied Science

New course

CHBE 587 (3) Interfacial Phenomena

Arts

New course

ASIA 574 (3) From the Chronicle to the Archive: Cultures of History in South Asia

Revised program requirements

Master of Arts in Ancient Culture, Religion and Ethnicity; Master of Arts in Classics; Master of Arts in Classical and Near Eastern Archaeology; Master of Arts in Religious Studies

Commerce and Business Administration

New course

BA 514 (5) IMBA Residency – People, Culture and Organizations

Forestry

New course

FRST 500 (1) Teaching and Learning in Forestry

Land and Food Systems

New course

FRST 500 (1) Teaching and Learning in Forestry

Science

New course

CHEM 506 (3) Polymer Chemistry; CHEM 528 (3) Nanomaterials Characterization

LAND AND FOOD SYSTEMS

New courses

APBI 317 (3) Welfare and Ethics of using Animals in Science; APBI 423 (3) Ecological Restoration; APBI 443 (3) - Field Study of Wine Grape Production; FNH 419 (3) Interfacial Phenomena

SCIENCE

Revised courses

BIOL 153 (8) Human Biology: Anatomy and Physiology; BIOL 155 (6) Human Biology: Physiology and Introductory Anatomy; COGS 300 (4) Understanding and Designing Cognitive Systems; CPSC 340 (3) Machine Learning and Data Mining;

New courses

MATH 254 (3) Multivariable and Vector Calculus for Mechanical Engineering; MATH 258 (3) Differential Equations for Mechanical Engineering; MATH 442 (3) Graphs and Networks

Revised minors



Applied Animal Biology; Sustainable Agriculture and Environment; Food and Resource
Economics; Food Science; Nutritional Sciences; Sustainable Food Systems



8 March 2019

To: Vancouver Senate

From: Tributes Committee

Subject: Memorial Minute

The Tributes Committee has prepared memorial minutes for the following individual:

Dr. Bikkar Singh Lalli

Motion: *That Senate approve the Memorial Minute for Dr. Bikkar Singh Lalli, that it be entered into the Minutes of Senate, and that copies be sent to the family of the deceased.*

Respectfully submitted,

Dr. Sally Thorne, Chair
Senate Tributes Committee



Dr. Bikkar Singh Lalli

Dr. Bikkar Singh Lalli was born on June 5th, 1928, in Kotli, in the Punjab. As his own village had no schools, he went to another village for his schooling. He was the first in his family to undertake post-secondary education. After completing his Bachelor and Master of Arts degrees at Punjab University, he came to UBC at age thirty-four to undertake a PhD in Mathematics, which he completed in 1966.

During a 42-year career, Dr. Lalli taught at Punjab University, UBC, and University of Saskatchewan. He received grants from NRC and NSERC for research in Mathematics. A distinguished scholar, he published over 150 journal articles. He was invited to lecture at universities and research institutes around the world, and was a visiting scholar in four countries.

Dr. Lalli was elected in 1999 as a convocation member of Senate and served the University in this regard until 2017, for six consecutive triennia.

Dr. Lalli's commitment to service extended beyond the university community. He served on the Coalition to Eliminate Abuse of Seniors, the City of Surrey Seniors Advisory and Accessibility Committee, the Kwantlen Foundation Board, and SFU's Komagata Maru Advisory Board. In 2011, Kwantlen Polytechnic University awarded Dr. Lalli with Doctor of Laws (Honoris Causa) for his community service. His presence will be greatly missed by family, friends, and colleagues.

To his family and friends, the Senate and the University of British Columbia offer their condolences and thanks.



8 March 2019

To: Senate

From: Senate Academic Policy Committee

Re: Emeritus College Terms of Reference

Terms of Reference for the Emeritus College, established by Senate and the Board in May/June of 2018, have now been reviewed by the Committee, the College Executive, and the Office of the University Counsel. The final Terms are presented for your approval and subsequent forwarding to the Senate and Board. These Terms of Reference are intended to be the ongoing governing documents for the College, replacing any governing language set forth in the College's establishing documents that had been previously approved in May 2018.

Therefore, the Committee recommends the following:

Motion: *"That Senate approve and forward to the Board of Governors for approval the attached Terms of Reference for the Emeritus College, and that, upon their approval, these Terms of Reference become the ongoing governance documents for the College, replacing any governing language that had been previously approved in the College's establishing documentation approved in May/June of 2018."*

Respectfully submitted,

Dr. Paul G. Harrison, Chair
Senate Academic Policy Committee



THE UNIVERSITY OF BRITISH COLUMBIA

Emeritus College**UBC EMERITUS COLLEGE – TERMS OF REFERENCE****1. Emeritus College Establishment and Objectives**

- 1.1. *Establishment of College.* On May 16, 2018, the University of British Columbia's ("UBC") Vancouver Senate (the "**Vancouver Senate**") approved and recommended to the UBC Board of Governors (the "**Board**") the establishment of the Emeritus College. The Board confirmed the establishment of the Emeritus College on June 15, 2018.
- 1.2. *College.* The Emeritus College is hereinafter referred to as the "College".
- 1.3. *Reporting Structure.* The College is an academic unit that is part of UBC Vancouver and its Principal (as defined in Section 4.1.1) reports to the Academic Vice President on the UBC Vancouver campus (the "**Vice-President, Academic**").
- 1.4. *College Vision and Objectives.* The College seeks to: (1) enrich intellectual focus and continued intellectual involvement for all retired UBC employees who hold emeritus status ("**Emeriti**") granted by the UBC Okanagan Senate (the "**Okanagan Senate**") or the Vancouver Senate; (2) promote active participation of Emeriti within the function of UBC; and (3) increase UBC's profile, status and involvement within the local, national and international communities.

2. Organization

- 2.1. *Application of UBC Rules.* The College operates within the administrative and financial purview of UBC and is subject to all UBC policies, procedures, and regulations, including, but not limited to, financial and operational policies, procedures, and regulations.
- 2.2. *Powers and Duties.* To fulfill its objectives, the College has the power and duty to:
 - 2.2.1. with approval of the Vice-President, Academic, make rules for the governance, direction and management of the College and its affairs and business;
 - 2.2.2. determine the activities and events to be provided by the College; and
 - 2.2.3. determine mechanisms to represent the interests of Emeriti,all in accordance with these Terms of Reference.
- 2.3. *No Degrees or Courses.* Notwithstanding anything to the contrary in these Terms of Reference or elsewhere, the College will not offer any degrees, academic programs or courses, whether for-credit or not-for-credit, at any time.
- 2.4. *Administration of College.* The Principal is responsible for the administration of the College in accordance with any rules established under Section 2.2.1 and in accordance with Section 4.2. The Principal will report to the Vice, President Academic in accordance with Section 4.2 and the Principal will provide an annual report to the UBC Vancouver Senate and the UBC Okanagan Senate on the activities of the College during the immediately preceding year.
- 2.5. *Office Manager.* The office of the Vice-President, Academic will provide administrative support to the College in the form of a dedicated Office Manager.



THE UNIVERSITY OF BRITISH COLUMBIA

Emeritus College

- 2.6. *College Council.* The College Council (as defined in Section 5.1) will provide guidance and support for the activities of the College in accordance with Section 5.7.

3. College Membership and Member Meetings

- 3.1. *Member Eligibility.* The following individuals are eligible to be members of the College ("**College Members**"):
- 3.1.1. individuals who are enrolled as College Members pursuant to Section 3.2 and who hold emeritus status granted by the Vancouver Senate or the Okanagan Senate;
 - 3.1.2. individuals, including UBC faculty members, clinical faculty members, librarians and program directors, who have been granted emeritus status by the Vancouver Senate or the Okanagan Senate, who continue to hold such status, and who meet any other criteria as set by the College Council from time to time; and
 - 3.1.3. other individuals whose membership, in the opinion of the College Council, would further the aims and mandate of the College, and may include, without limitation, retired sessional lecturers with long standing service and tenure to UBC equivalent to those for which emeritus status is granted at UBC and retired faculty members and librarians from other recognized universities and colleges with long service to their past institution equivalent to those for which emeritus status is granted at UBC.
- 3.2. *Automatic College Members.* Each member of the UBC Association of Professors Emeriti as of June 15, 2018 is automatically admitted as a College Member unless a member informs the Principal in writing that such member does not wish to be a College Member.
- 3.3. *Becoming a College Member.* Upon application in the form determined by the Principal, all eligible individuals under Sections 3.1.2 and 3.1.3 will become College Members.
- 3.4. *Member Guests.* Spouses, partners or guests of College Members who are not themselves College Members may attend College events that are open to the public and the Principal may invite these individuals to other College activities.
- 3.5. *Revocation of College Membership.*
- 3.5.1. In extraordinary circumstances, the College Council may revoke the membership of a College Member if at least two-thirds of the Voting Council Members (as defined in Section 5.2) approve a motion to revoke the membership after the College Council has provided at least one month's written notice of the proposed revocation to the College Member in question, which notice must include the rationale for the proposed revocation and the opportunity for the College Member in question to submit a response prior to the motion being considered by the College Council.
 - 3.5.2. Notwithstanding Section 3.5.1, in the event that a College Member ceases to be eligible for membership in the College under Section 3.1.1 or Section 3.1.2, such individual ceases to be a College Member immediately upon becoming ineligible for membership, unless otherwise admitted to membership under Section 3.1.3.



THE UNIVERSITY OF BRITISH COLUMBIA

Emeritus College**3.6. Meetings of College Members.**

- 3.6.1. *Annual Meetings.* The College will hold an annual meeting of the College Members (the “**Annual Meeting**”) at such time and place as determined by the Principal, and such additional general meetings of the College Members (“**General Meetings**”) as may be required from time to time.
- 3.6.2. *Extraordinary General Meetings.* The Principal will call an extraordinary general meeting of the College Members (each, an “**Extraordinary General Meeting**” and together with the Annual Meetings and the General Meetings, the “**Member Meetings**”) upon written request from a majority of the Members-at-Large (as defined in Section 5.1.4) or upon written request from at least 25 College Members.
- 3.6.3. *Notice.* The Principal will provide at least 10 business days’ written notice of a Member Meeting to all College Members by mail or email to the addresses on record with the College, which notice will include a description of the business proposed to be discussed at the Member Meeting.
- 3.6.4. *Quorum.* At each Member Meeting, quorum will consist of at least 25 College Members. If, at the call of the Member Meeting, a quorum is not present, the chair of the Member Meeting may adjourn the Member Meeting for 30 minutes. Upon the lapse of the thirty-minute adjournment, those College Members present will constitute quorum.
- 3.6.5. *Meeting Chair.* The Principal will chair Member Meetings. In the event that the Principal is unavailable for a Member Meeting, the Vice-Principal will chair such Member Meeting, or if the Vice-Principal is also unavailable, then the Immediate Past Principal or any other Voting Council Member will chair the Meeting.
- 3.6.6. *Rules.* Unless otherwise provided in these Terms of Reference, the current edition of Robert’s Rules of Order Newly Revised will govern all Member Meetings.

4. Principals

- 4.1. *Principal Categories.* The College will have the following:
 - 4.1.1. a principal (the “**Principal**”);
 - 4.1.2. a vice-principal (the “**Vice-Principal**”);
 - 4.1.3. past principals (the “**Past Principals**”), being all individuals who were previously appointed as Principals; and
 - 4.1.4. an immediate past principal, being the individual who most recently prior to becoming a Past Principal was the Principal (the “**Immediate Past Principal**”).
- 4.2. *Role of the Principal.* The Principal oversees and is responsible for the affairs and business of the College and bears responsibility for the proper functioning of the College. The Principal will report to the Vice-President, Academic and will consider the advice of the College Council in fulfilling the role of Principal of the College.



THE UNIVERSITY OF BRITISH COLUMBIA

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- 4.3. *Requirements.* Each Principal, Vice-Principal, Past Principal and Immediate Past Principal must be a College Member.
- 4.4. *Appointments of Principals and Vice-Principals.* The College Members elect the Principal (the “**Recommended Principal**”) and the Vice-Principal (the “**Recommended Vice-Principal**”) in accordance with Section 7.4 for recommendation to the Vice-President, Academic. Subject to extraordinary circumstances, the Vice-President, Academic is expected to recommend:
- 4.4.1. the appointment of the Recommended Principal for a one-year term under Policy 27 of the Board (Appointment of Retired Faculty Members) (“**Policy 27**”); and
 - 4.4.2. the appointment of the Recommended Vice-Principal for a one-year term under Policy 27.
- 4.5. *Appointment of Immediate Past Principal.* Subject to extraordinary circumstances, the Principal will automatically become the Immediate Past Principal immediately upon the termination of the Principal’s one-year appointment made pursuant to Section 4.4.1 and it is expected that the Vice-President, Academic will recommend the appointment of such Principal as the Immediate Past Principal for a one-year appointment under Policy 27.
- 4.6. *Remuneration.* The appointments of the Principal, the Vice-Principal and the Immediate Past Principal are expected to be non-salaried positions but the Vice-President, Academic has the discretion to provide for salaried appointments in accordance with UBC policies.
- 4.7. *Term of Principals.* It is expected that the term of each of the Principal, the Vice-Principal and the Immediate Past Principal be for one year, normally from July 1 to June 30. In the event that any of the Principal, the Vice-Principal or the Immediate Past Principal is unable or unwilling to serve his or her term in accordance with these Terms of Reference, the Vice-President, Academic may recommend, in consultation with the College Council, the appointment of another individual as Principal, Vice-Principal or Immediate Past Principal, as the case may be, to serve until new appointments are made following the next Annual Meeting.

5. College Council

- 5.1. *College Council Members.* The College will have a council (the “**College Council**”) composed of the following members:
- 5.1.1. the Principal;
 - 5.1.2. the Vice-Principal;
 - 5.1.3. the Immediate Past Principal;
 - 5.1.4. up to nine additional College Members, elected in accordance with Section 5.4 and Section 7.4 (the “**Members-at-Large**”); and
 - 5.1.5. Past Principals, other than the Immediate Past Principal, if such persons agree to be on the College Council.



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- 5.2. *Voting Rights.* The persons listed in Sections 5.1.1 to 5.1.4, inclusive (“**Voting Council Members**”), have voting rights on the College Council. Any Past Principals, other than the Immediate Past Principal, serving on the College Council will serve as non-voting ex-officio members of the College Council.
- 5.3. *Additional Members.* The College Council may appoint additional non-voting ex-officio College Members as members of the College Council from time to time.
- 5.4. *Election of Members-at-Large.* The College Members will elect the Members-at-Large at each Annual Meeting in accordance with Section 7.4 for staggered three-year terms. In the first year of the College, approximately one third of the Members-at-Large will be elected for a one-year term, one third will be elected for a two-year term and one third will be elected for a three-year term.
- 5.5. *Vacancies.* In the event of vacancies occurring in respect of the Voting Council Members, the College Council may fill such vacancies for the unexpired term of the applicable Voting Council Member.
- 5.6. *College Council Chair.* The Principal will chair the College Council. In the event that the Principal is unavailable to chair a College Council meeting, the Vice-Principal will chair such meeting, or if the Vice-Principal is also unavailable, then the Immediate Past Principal will chair the meeting. If each of the Principal, Vice-Principal and Immediate Past Principal are unavailable to chair a College Council meeting, the meeting will be adjourned to such other time and place as determined by the Principal and indicated to the College Council members by reasonable notice.
- 5.7. *Role of College Council.* The role of the College Council is to:
- 5.7.1. provide advice to the Principal on matters related to the College;
 - 5.7.2. carry out such tasks as may be delegated to the College Council by the Principal; and
 - 5.7.3. carry out its obligations set out in these Terms of Reference.
- In connection with Section 5.7.1, the Principal will consider the advice of the College Council but the Principal has ultimate discretion in making decisions and is not required to follow such advice.
- 5.8. *College Council Meetings.* The College Council will meet at least four times per academic year at the time and place set by the Principal by reasonable written notice to the College Council members. At all College Council meetings, quorum will consist of any six Voting Council Members, provided that at least one of the Principal, Vice-Principal or Immediate Past Principal must be present. A majority of votes cast by Voting Council Members present at a College Council meeting is required for the approval of motions.

6. Committees

- 6.1. *Standing Committees.* The College has the following standing committees:
- 6.1.1. Nominating Committee, which is responsible for recruiting nominees for the positions of Principal, Vice-Principal and Members-at-Large, and for proposing a slate of individuals to be voted on at each Annual Meeting; and
 - 6.1.2. Membership Committee, which is responsible for providing advice and assistance to the College Council in connection with matters related to College Members.



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- 6.2. *Other Standing and Ad-Hoc Committees.* In addition, in consultation with the College Council, the Principal may establish such other standing or ad-hoc committees as the Principal determines necessary to assist in implementing the objectives of the College, and each standing committee or ad-hoc committee of the College will have such terms of reference and membership as determined by the Principal, in consultation with the College Council.

7. Nominations and Elections

- 7.1. *Nominations by Nominating Committee.* The Nominating Committee will propose a slate of nominees for the positions of Principal, Vice-Principal and Members-at-Large to be voted on by the College Members at each Annual Meeting. The Nominating Committee requires the approval of the Vice-President, Academic in respect of the Nominating Committee's nominations for Principal and Vice-Principal prior to presenting such nominations to the College Members for voting.
- 7.2. *Vice-Principal to be Nominated.* Subject to exceptional circumstances, it is expected that the Nominating Committee will nominate the then-current Vice-Principal for election as the Principal for the term immediately following the end of such Vice-Principal's term and that the Vice-President, Academic will approve such nomination.
- 7.3. *Additional Nominations.* The Nominating Committee will accept additional nominations from College Members if the individuals proposed for nomination agree to be nominated and the nominations are submitted to the Nominating Committee in writing with the endorsement of at least five College Members per nomination at least 10 business days before the applicable Annual Meeting. In the event that additional nominations for the positions of Principal or Vice-Principal are provided to the Nominating Committee, the Nominating Committee will present such additional nominations to the Vice-President, Academic for approval prior to the Annual Meeting.
- 7.4. *Elections.* The College Members will vote for the Principal, Vice-Principal and Members-at-Large at each Annual Meeting. Votes may be cast at or prior to the Annual Meeting in such manner as the College Council determines from time to time. If there are no nominations in addition to the slate of nominees proposed by the Nominating Committee, a majority of votes cast by the College Members is necessary to elect the slate of nominees proposed by the Nominating Committee. In the event that there are multiple candidates for a position, the candidate with the greatest number of votes will be elected to that position.

8. Finance

- 8.1. *Operating Funds and Budgets.* On an annual basis, the Principal will develop a budget proposal for the operations of the College and will provide such budget proposal to the Vice-President, Academic for review and subsequent consideration and approval by UBC. The Principal and the Vice-President, Academic will work together to finalize and set a budget for the College for each calendar year. The office of the Vice-President, Academic will provide operating funds to the College, which the Principal will administer and use in accordance with the approved budget.
- 8.2. *Third Party Contributions.* The Principal will use any funds donated or endowed for purposes of the College in accordance with the terms of the applicable donation or endowment.
- 8.3. *Accounting.* The Principal will cause complete and accurate accounting records to be maintained in respect of all funds provided to, and administered by, the College.



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- 8.4. *Compliance with Finance Requirements.* Without limiting or restricting the generality of Section 2.1 in any way, the Principal will ensure that the College complies with all applicable UBC policies, financial controls and accounting requirements in connection with the use of funds, including operating funds and third party contributions, by the College.

9. College Records

- 9.1. *College Records.* The College will hold College records and documents in accordance with applicable UBC policies and regulations.

10. Amendments to Terms of Reference

- 10.1. *Amendments.* Amendments to these Terms of Reference must be approved by the Vancouver Senate and the Board. The Vice-President, Academic may make recommendations to the Vancouver Senate and the Board regarding amendments to these Terms of Reference. In addition, upon receiving the support of two thirds of College Members voting at a Member Meeting, the College Council may make recommendations regarding amendments to these Terms of Reference for consideration by the Vice-President, Academic.
- 10.2. *Effective Date of Amendments.* Any amendment to these Terms of Reference will become effective upon approval of the amendment by the Board on recommendation of the Vancouver Senate.

20 March 2019

From: Senate Awards Committee

To: Senate

Re: New Awards and Changes to Existing Awards

The Senate Awards Committee recommends:

“That Senate accept the awards as listed and forward them to the Board of Governors for approval, and that letter of thanks be sent to the donors.”

NEW AWARDS – ENDOWED

Erickson-Kline-Moerike Nurse Practitioner Preceptor Prize

Prizes totalling \$1,200 have been made available through an endowment established by Mr. Mitchel Erickson and Mr. Martin Kline for outstanding nurse practitioner preceptors in the Master of Nursing – Nurse Practitioner program. The prizes are made on the recommendation of the UBC School of Nursing. (First award available for the 2019/2020 winter session.)

William D. Wray Graduate Scholarship in Japanese Studies

Scholarships totalling \$5,000 have been made available through an endowment established by Tokuko Wray in memory of her husband, William D. “Bill” Wray, for graduate students in the Faculty of Arts undertaking study related to Japan with preference given to students researching Japanese history. William D. Wray (1943-2017) taught Japanese history at UBC for 33 years. 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 academic session.)

NEW AWARDS – ANNUAL

Dmitry Apel Memorial Award in Microbiology and Immunology

A \$5,000 award is offered annually by the family of Dmitry Apel for a Ph.D. student in the Department of Microbiology and Immunology with outstanding academic achievement who has demonstrated involvement in the student community through volunteerism or participation in student groups. Preference will be given to a student in the final year of the Ph.D. program. Dmitry was pursuing his Ph.D. when he passed away, and was posthumously awarded his

degree. Dmitry's attitude towards scientific research reflected his passionate belief in the benefit of the fundamental quest for knowledge. This academic award is made on the recommendation of the Department of Microbiology and Immunology in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2018/2019 winter session.)

Dottori-Attanasio Centennial Scholars Award in Commerce

Renewable entrance awards totalling \$10,000 each are offered annually by Mark Attanasio and Laura Dottori for outstanding domestic students entering the Bachelor of Commerce program in the UBC Sauder School of Business. Recipients are academically qualified and 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. Preference is for students from under-represented student populations. Subject to continued academic standing, the awards will be renewed for a further three years of study or until the first undergraduate degree is obtained (whichever is the shorter period). The Dottori-Attanasio family believes in the importance of diversity and inclusion in business and society. It is their belief that people and companies always do better when supported by persons with different backgrounds and perspectives. They created this award to support students from different backgrounds in accessing a great education to reach their full potential. The awards are made on the recommendation of the Centennial Scholars Entrance Award Committee. (First award available for the 2019/2020 winter session.)

Faculty Advisory Board Bachelor of Commerce Entrance Scholarship

A \$10,000 entrance scholarship is offered annually by the UBC Sauder School of Business Faculty Advisory Board to outstanding undergraduate student entering the first year of the Bachelor of Commerce program directly from secondary school. Candidates must be Canadian citizens or permanent residents. Subject to continued scholarship standing, the award will be renewed for a further three years of study or until a Bachelor of Commerce degree is obtained (whichever is the shorter period). The scholarship is made on the recommendation of the UBC Sauder School of Business. (First award available for the 2019/2020 winter session).

Brittany Jang Prize in Urban Futures

A prize of \$500 is awarded annually to the top academic student in lower-level required courses in the Urban Studies Program in the Faculty of Arts. Preference will be given to a top student from URST 200 or GEOG 250. The prizes are made on the recommendation of the Chair of Urban Studies Coordinating Committee and the Department of Geography. (First award available for the 2018/2019 winter session.)

Lieutenant Governor's Medal for Inclusion, Democracy and Reconciliation

One medal is offered annually by the Lieutenant Governor of British Columbia to a student graduating from any four-year undergraduate degree program who demonstrates academic merit

and contribution to the life of the University and/or to their community in the areas of inclusion, democracy, and/or reconciliation. Contributions in the area of inclusion refer to the promotion of diversity and inclusion and demonstration of strong collaboration and unifying efforts through the promotion and display of tolerance and respect for others. Contributions in the area of democracy refer to the strengthening of democracy through civic engagement or the advancement of human rights and demonstration of the recognition of the fundamental rights and dignity of all persons at a local, national, or global level. Contributions in the area of reconciliation refers to action taken to transform society by establishing a renewed relationship with Indigenous peoples and efforts undertaken to heal communities. This award has no monetary value. The award is made on the recommendation of the Lieutenant Governor's Medal Committee. (First award available for the 2018/2019 winter session.)

Dr. Zohreh Izadi Memorial Entrance Award

Entrance awards totalling \$20,000 are offered annually in memory of Dr. Zohreh Izadi, to outstanding students entering university directly from secondary schools, or transferring directly from other colleges and universities, in Canada or abroad. Criteria for these entrance awards include demonstrated academic achievements in the arts, or science with preference given to refugee students. Recipients are academically qualified students with an interest in joining and contributing to the UBC Vancouver community but who would not be able to attend UBC without significant financial assistance. Dr. Izadi spent her life working as a physician, war medic, and humanitarian. She had a great interest in the arts, having authored hundreds of poems and literary pieces, and created a large body of paintings. She came to Canada as a refugee, and always had tremendous love and admiration for students of science and the arts, and a particular interest in the wellbeing of refugees. The awards are made on the recommendation of the Centennial Scholars Entrance Award Committee. (First award available for the 2019/2020 winter session.)

Petrov Family Graduate Scholarship in Chemical and Biological Engineering

A \$2,000 scholarship is offered annually by Dr. Olga Petrov (Ph.D. 2018), Dr. Aleksandar Petrov (Ph.D. 1996), and Irina Petrov (B.Sc. 2012) for outstanding Ph.D. students in the Department of Chemical and Biological Engineering. The Petrovs emigrated from Belgrade in 1996, then the capital of Yugoslavia. Aleksandar worked for ten years in the computer hardware industry in Vancouver. After being diagnosed with multiple sclerosis he retired and Olga supported the family through her work in consultancy and teaching. Despite her own battle with cancer, she completed her Ph.D. in Chemical and Biological Engineering at UBC in 2018. The Petrovs felt it was a privilege to study at UBC and established this award to provide support and encouragement to future generations of students. The scholarship is made on the recommendation of the Department of Chemical and Biological Engineering, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2019/2020 winter session.)

Drs. Joan and Melville Shaw Scholarship in Music

A \$2,000 scholarship is offered annually by Dr. Joan Shaw (B.A. 1969, B.Mus. 1972, Dip (Ed). 1997, M.A. 2000, Ph.D.) and Professor Emeritus Melville Shaw (M.D.), for students entering second year or higher in the Bachelor of Music program. The lives of both Drs. Shaw have been strongly influenced by music and their ability to make music and friendships around the world was based on their love of all kinds of music. The scholarship is made on the recommendation of the UBC School of Music. (First award available for the 2019/2020 winter session.)

PREVIOUSLY APPROVED AWARDS WITH CHANGES IN TERMS OR FUNDING SOURCE**Endowed Awards****7308 – Arthur John Watson Memorial Bursary in Electrical Engineering****Rationale for Proposed Changes**

The donor would like to open the candidate pool to all students in electrical engineering while still giving preference to Indigenous students. As discussed with University Counsel this amendment to the award description is within the stated purpose of the endowment which is to support bursaries for electrical engineering students.

Current Award Description

Bursaries totalling \$1,300 have been made available through an endowment established by Mrs. Geraldine Stringer in memory of her first husband, Arthur John Watson, who graduated from UBC in electrical engineering (BASc1953). The bursaries are awarded to Canadian Aboriginal undergraduate students in Electrical Engineering in the Faculty of Applied Science.

Proposed Award Description

Bursaries totalling \$1,300 have been made available through an endowment established by Mrs. Geraldine Stringer in memory of her first husband, Arthur John Watson, who graduated from UBC in electrical engineering (BASc1953). The bursaries are awarded to ~~Canadian Aboriginal~~ undergraduate students in Electrical Engineering in the Faculty of Applied Science. **Preference will be given to First Nations, Inuit or Métis students of Canada.**

International Leader of Tomorrow Awards

Rationale for Proposed Changes

As approved at the February 12 meeting of the Board of Governors, the International Leader of Tomorrow Award Endowment Fund will be renamed to the Karen McKellin International Leader of Tomorrow Award Endowment Fund in honour of Karen McKellin, Executive Director, International Student Initiative as requested by The Vice-Provost Dr. Pam Ratner. The renaming of the related annual awards honors Karen's retirement and significant contributions to UBC over her 20 years of service.

693 – International Leader of Tomorrow Award

Proposed Name: **Karen McKellin** International Leader of Tomorrow Award

Proposed Award Description

No change.

8385 – International Leader of Tomorrow Bursary

Proposed Name: **Karen McKellin** International Leader of Tomorrow Bursary

Proposed Award Description

No change.

8483 - International Leader of Tomorrow Award (Start Up)

Proposed Name: **Karen McKellin** International Leader of Tomorrow Award (Start Up)

Proposed Award Description

No change.

8484 – International Leader of Tomorrow Award (Living Allowance)

Proposed Name: **Karen McKellin** International Leader of Tomorrow Award (Living Allowance)

Proposed Award Description

No change.

8485 – International Leader of Tomorrow Bursary (Start Up)

Proposed Name: **Karen McKellin** International Leader of Tomorrow Bursary (Start Up)

Proposed Award Description

No change.

8486 – International Leader of Tomorrow Bursary (Living Allowance)

Proposed Name: **Karen McKellin** International Leader of Tomorrow Bursary (Living Allowance)

Proposed Award Description

No change.

Annual Awards**1609 – Wolrige Mahon Scholarship****Rationale for Proposed Changes**

Wolrige Mahon LLP has been renamed to Baker Tilly WM LLP. They have requested that their named annual award be updated to reflect this change.

Current Award Description

Four \$500 scholarships are provided by Wolrige Mahon, LLP, Chartered Professional Accountants, to four students in the third year of the Accounting option in the Sauder School of Business. They are made on the recommendation of the School based on academic standing, leadership qualities and interest in pursuing careers as Chartered Professional Accountants.

Proposed Name: ~~Wolrige Mahon~~ **Baker Tilly WM** Scholarship

Proposed Award Description

Four \$500 scholarships are provided by ~~Wolrige Mahon, LLP, Chartered Professional Accountants,~~ **Baker Tilly WM LLP** to four students in the third year of the Accounting option in the Sauder School of Business. They are made on the recommendation of the School based on academic standing, leadership qualities and interest in pursuing careers as Chartered Professional Accountants.



20 March 2019

To: Vancouver Senate
From: Senate Curriculum and Admissions Committees
Re: Bachelor of Pharmaceutical Sciences (approval)

The Senate Curriculum and Admissions Committees have reviewed the material forwarded to them by the Faculty of Pharmaceutical Sciences and enclose those proposals they deem ready for approval.

The following is recommended to Senate:

Motion: *“That the new Bachelor of Pharmaceutical Sciences degree program and its associated new courses be approved.”*

Respectfully submitted,

Dr. Peter Marshall, Chair, Senate Curriculum Committee
Dr. Carol Jaeger, Chair, Senate Admissions Committee

**FACULTY OF PHARMACEUTICAL SCIENCES***New program*

Bachelor of Pharmaceutical Sciences

New courses

PHAR 180 (1) Pharmaceutical Topics and Communication Seminar I; **PHAR 202 (3)** Biochemical Pharmacology; **PHAR 203 (4)** Drug Delivery Technologies and Personalized Medicine; **PHAR 204 (3)** Pharmaceutical Research; **PHAR 205 (3)** Clinical Epidemiology & Pharmaceutical Outcomes I; **PHAR 280 (1)** Pharmaceutical Topics and Communication Seminar II; **PHAR 302 (3)** Pharmacokinetics and Pharmacogenomics; **PHAR 303 (3)** Nanomedicine; **PHAR 304 (3)** Biopharmaceutics Theory and Laboratory; **PHAR 305 (3)** Clinical Epidemiology & Pharmaceutical Outcomes II; **PHAR 306 (3)** Medicinal Chemistry of High-Impact Pharmaceuticals in Major Diseases; **PHAR 307 (3)** Analytical Sciences Theory and Laboratory; **PHAR 308 (3)** Systematic Pharmacology; **PHAR 370 (4)** Pharmaceutical Cases I; **PHAR 380 (1)** Pharmaceutical Topics and Communication Seminar III; **PHAR 421 (4)** Precision Medicine; **PHAR 422 (3)** Pharmacoeconomics; **PHAR 423 (3)** Pharmaceutical Outcomes Research; **PHAR 424 (3)** Financing and Therapeutics in the Canadian Health Care System; **PHAR 425 (3)** Biologics; **PHAR 426 (3)** Advanced Anesthetics and Analgesics; **PHAR 427 (4)** Drug Structures in Medicinal Chemistry; **PHAR 428 (3)** Clinical Chemistry; **PHAR 429 (3)** Adverse Drug Reactions; **PHAR 432 (3)** Toxicology; **PHAR 433 (3)** Advanced Pharmacokinetics; **PHAR 470 (4)** Pharmaceutical Cases II; **PHAR 480 (1)** Pharmaceutical Topics and Communication Seminar IV; **PHAR 485 (15)** Research Project; **PHAR 490 (6)** Honours Seminar; **PHAR 491 (6)** Honours Thesis; **PHAR 495 (15)** Practicum; **PHAR 497 (3/6)** Directed Studies in Pharmaceutical Sciences.



New Program Proposal

Bachelor of Pharmaceutical Sciences

BPSc

Version 10

Pharmaceutical Sciences Faculty Approval Date:

10 January 2019

EXECUTIVE SUMMARY

Credential

The credential awarded will be the Bachelor of Pharmaceutical Sciences (BPSc).

a) Level and Category of the Degree

Baccalaureate

b) Specific Discipline or Field of Study

Pharmaceutical Sciences

The Classification of Instructional Programs (CIP) Canada 2011 describes pharmaceutical sciences degrees as follows¹:

51.2010 Pharmaceutical sciences

This instructional program class comprises any program that focuses on the basic sciences that underlie drugs and drug therapy and that prepares individuals for further study and/or careers in pharmaceutical science and research, pharmaceutical administration and sales, biotechnology, drug manufacturing, regulatory affairs, and related fields.

These programs include courses in mathematics, biology, chemistry, physics, statistics, pharmaceuticals, pharmacology and toxicology, dosage formulation, manufacturing, quality assurance, and regulations.

Delivery methods

The program will be delivered through traditional, in-person classroom, laboratory teaching, and practicum and research placement opportunity. Learning will be supported by the use of an online learning management system (Canvas) where lecture slides will be posted, assignments may be completed, and discussion boards will be monitored.

Anticipated program start date

Subject to approval, the target program start date is September 2020.

Targeted students

The BPSc is a direct-entry from High School undergraduate program.

Learning outcomes, and employment prospects

Students will have learned a foundational natural science curriculum, and then specialize into a comprehensive Pharmaceutical Sciences curriculum. They will graduate competent in the knowledge and practical skills of the Pharmaceutical Sciences to enable their problem-solving abilities. These, together with demonstrated teamwork, leadership, entrepreneurial and ethical behaviours, will allow our graduates to contribute to economic, social and political discussions in society.

Employment prospects include biotechnology and pharmaceutical industries; government affairs, relations and policy; regulatory affairs; industrial manufacturing; the personal care product and nutraceutical industries; health care and allied health care professions; and, transition to academic research.

This program does not lead to employment as a pharmacist and is not a professional program.

¹ Retrieved 2017.11.09 from <http://www.statcan.gc.ca/pub/12-590-x/12-590-x2012001-eng.pdf>

Program concentrations

Students may choose Course-based (a taught degree), Research Focus (Research Project or Practicum Experience in Year 4) or Honours with Research focus (Research Project or Practicum Year 4 + additional 12 credits taught courses).

Number of program credits

120 credits for the Course-based, Research and Practicum options.

132 credits for the Honours options.

Anticipated program completion time

Approx. 30 credits per year for four years for the Course-based, Research, and Practicum options. Additional 12 credits over the 3rd and 4th years for the Honours options.

Summary of the proposed program

a) Aims, Goals or Objectives of the Program

The goals of this program are to:

- Address an evolving labour market need identified by research and development in the pharmaceutical and consumer products industries.
- Provide students with the theoretical and practical education needed to enter academia, the pharmaceutical and biotechnology industries, and other related career pathways.
- Be the leading educator of undergraduate students in the Pharmaceutical Sciences, by leveraging our Faculty's reputation for excellence in Pharmacy and the respective foundational sciences.

Program Learning Outcomes:

Broadly speaking, at the end of the program students will be able to:

- Apply the knowledge and practical skills gained in this program to contribute to the discovery, development and evaluation of drugs and therapies.
- Be able to contribute to the broad discourse between academic, industry and government professionals through specific training provided by our Faculty that enables these students to understand and be proficient in the types of language required in these sectors.
- Meaningfully contribute to social, political and economic discussions as professionals, entrepreneurs and emerging leaders in the area of pharmaceutical science.

Specific Programmatic Learning Outcomes (PLO)

Upon completion of the program, students will be able to:

1. Apply the knowledge and practical skills to contribute to the discovery, development and evaluation of drugs and therapies
2. Meaningfully contribute to social, political and economic discussions as professionals, entrepreneurs and leaders in the area of pharmaceutical science
3. Describe the design, formulation, and evaluation of pharmaceuticals for the transformation of a drug candidate into a finished *clinical/therapeutic* product.
4. Apply the skills and techniques, and understand the regulatory processes that support drug discovery, development and outcomes science.
5. Participate in research in pharmaceutical sciences at international standards.
6. Debate pharmaceutical issues from a variety of social, political and economic perspectives.
7. Provide relevant solutions to scientific problems through sourcing and synthesizing information, and applying critical thinking.
8. Communicate effectively in a professional environment through scientific writing and presentations.

9. Demonstrate teamwork and professional and ethical behavior.
10. Demonstrate strong leadership and entrepreneurial skills.

In arriving at these outcomes, the Faculty consulted widely with faculty, staff, and students in the Faculties of Pharmaceutical Sciences, Science, and Medicine, as well as with alumni.

b) Anticipated contribution of the proposed program to the mandate and strategic plan of the institution

Our program addresses multiple parts of UBC's strategic plan². From the People and Places Core Strategy we are particularly responsive to Strategies 1 (Great People), and 4 (Inclusive Excellence). This is because this innovative program will attract great students and faculty. We aim to be broadly inclusive in our plan for program evaluation where equity and diversity are prized, and we are renewing programs and refreshing our faculty in Pharmaceutical Sciences, Science, Medicine and other faculties that will take part in this new program.

From the Research Excellence Core Strategy this entire program is designed to increase undergraduate student access to research and enhance their experiences (Strategy 8). It is also designed to Increase Knowledge Exchange: between Faculties at UBC, between Universities in Canada (especially with Université de Montreal) and between UBC and industrial partners (Strategy 9). By successfully implementing and completing this program we will strengthen the university's research culture by providing research and practicum experiences in year 4 that can produce excellent new graduate students and strengthen ties to industrial partners (Strategy 10).

From the Transformative Learning Core Strategies, this new program constitutes Educational Renewal and Program Redesign for our Faculty, and contributes to novel education for UBC as a whole (Strategies 11 and 12). It also squarely addresses the need for Practical Learning with our practicum and research options (Strategy 13), as well as offering interdisciplinary education broadly in Pharmaceutical Sciences and focusing on student-centered learning (Strategies 14 and 15).

Finally, this program engages locally and globally. It is responsive to the public's stated needs and wants for more technology-facing opportunities for their children (Strategy 16). We have engaged heavily with alumni to help build and refine this program (indeed, some of them will deliver content and/or take practicum students) (Strategy 18). We are building global networks, starting with Université de Montreal which is in Canada but outside of BC, and hoping to expand to the network of programs similar to ours worldwide, and whom we have consulted in the building of this program including University of Michigan (USA), University of Copenhagen (Denmark) and Monash University (Melbourne, Australia), responsive to Strategy 20 of the strategic plan.

On the whole, this Program is a timely addition that not only fits the strategic plan but can help to drive its implementation and success.

c) Linkages between the learning outcomes and the curriculum design, and whether a work experience/work place term is required for degree completion. If a work experience/work place term is required, provide a description of the purpose and role of the work experience within the program

Program and Course Learning Outcomes are closely linked to curriculum design. Specific courses have been developed in 3rd and 4th year to develop entrepreneurial, leadership, social and political awareness (PLO 1, 2, 6, 7, 9, 10; see list in a) above). Other courses have been developed specifically to teach the economics and resource requirements of the health care, pharmaceutical and biotechnology industries;

² See *Shaping UBC's Next Century*, <https://strategicplan.ubc.ca/>.

these are taught in years 2, 3 and 4 (PLO 1, 2, 4, 6, 9). Research practicum and project experiences (year 4) as well as wet and dry laboratories in years 2, 3 and 4 address PLO 1, 3, 4, 5, 7, 8, 9, 10. Individual classes have been developed to address all aspects of these outcomes from introductory to mastery level.

A work experience/work placement is not required for graduation, but these will be offered on a competitive basis as a 15-credit practicum placement with industry, government and others in 4th year.

d) Potential areas/sectors of employment for graduates and /or opportunities for further study

- Biotechnology Industry
- Dietary Supplement Industry
- Government policy advisory
- Health Care Professions (Medicine, Dentistry, Nursing, Pharmacy)
- Hospital/Health Care provider administration
- Therapeutic cannabis industry
- Medical Device sales and marketing
- Nutraceutical Industry
- Paint and other industrial formulations manufacturers
- Personal Care Product Industry (e.g. shampoos, lotions, makeup)
- Pharmaceutical Industry, including generic medication providers
- Process Manufacturing
- Quality Assurance Management
- Regulatory Affairs
- Sales and Marketing
- Veterinary drug industry
- Graduate school (MSc, PhD) and subsequent Academic Positions or higher positions in the above.

e) Delivery methods

Courses will be delivered by Faculty members in Pharmaceutical Sciences and other allied science and health care disciplines. Additionally, suitably knowledgeable and qualified members of the government, pharmaceutical, biotechnology and other industries will provide instruction.

Mandatory courses in 3rd year and optional courses in 4th year include wet laboratories, learning techniques in analytical and pharmaceutical sciences. In 2nd, 3rd and 4th year courses also encompass “dry” laboratories including computer simulation and modeling for population-based skills (pharmacoeconomics, health resource allocation, forecasting).

There are two required courses (one each in 3rd and 4th year) where debates and small group discussions are combined with didactic instruction and case-based learning to promote synthesis thinking, leadership and entrepreneurship.

Electives in 4th year commonly combine mixed teaching modalities including flipped classrooms, group learning, and panel discussions in addition to traditional didactic instruction.

f) Program strengths

This program leverages existing excellence within UBC in Pharmaceutical Sciences to enhance the Faculty and University further. It will be the only program of its kind in Western Canada and the only English speaking program of its kind in all of Canada.

The program provides a formalized collaborative framework between the Faculties of Pharmaceutical Sciences and Science, which can be leveraged further to improve excellence in teaching and research. Informal agreements with Medicine (School of Population and Public Health, and Pharmacology) can also promote these ideals.

The BPSc program will provide academic instruction in the Pharmaceutical Sciences that can lead to academic enquiry, but also a more clear pathway to employment in the industries described in (e) than a general degree for graduates, therefore promoting industry growth in BC (and beyond), UBC/Industry relationships and the economic health of individuals and our province as a whole.

The biotechnology and pharmaceutical industry in BC is expected to double in size by 2027³ and our graduates can support the growth of this industry, bringing economic prosperity to the province. Moreover, this is the logical avenue, but it is only one of the sectors in which our graduates can find employment.

- g) An overview of the level of support and recognition from other post-secondary institutions, and relevant regulatory or professional bodies, where applicable and plans for admissions and transfer within the British Columbia post-secondary education system

The only other program similar to this, at Université de Montreal, wishes to partner with us as a “sister school” – strengthening both institutions. Their Dean of Pharmacy has provided a letter of strong support.

There is a large amount of enthusiasm and buy-in from technology, biotechnology, and pharmaceutical industry in BC. This is demonstrated by letters of support, and their agreement to take students for practical experiences. For example, partners within the LifeSciences BC network, which represents the life sciences community of British Columbia, have provided positive support and feedback for this new program.

Transfer into 2nd year of the program will be permitted if the student meets competitive admission requirements. Transfer credit will be assessed when admission is achieved.

- h) Related programs in the institution or other British Columbia post-secondary institutions. Indicate rationale for duplication, if any

There is some overlap with the UBC Pharmacology BSc program, although in consultation with them we have focused our laboratories on analytical and chemical sciences. Our students may be able to take their laboratories in animal studies (and vice-versa). Otherwise “Pharmaceutical Sciences” is considerably broader than Pharmacology, which is only one of the pharmaceutical sciences.

There is some overlap with the UBC School of Population and Public Health (SPPH) although our program will be much more focused on pharmaceutical outcomes, rather than public health broadly interpreted. The SPPH does not furnish many undergraduate programs. Again, in consultation with SPPH; we see this as a partnering opportunity to leverage existing strengths and create more opportunities for interdisciplinary training and collaboration.

Institutional Contact

Dr. Abby C. Collier PhD

Associate Professor of Pharmacology

Director: Analytical Suite, Pharmaceutical Sciences

The University of British Columbia | Vancouver Campus

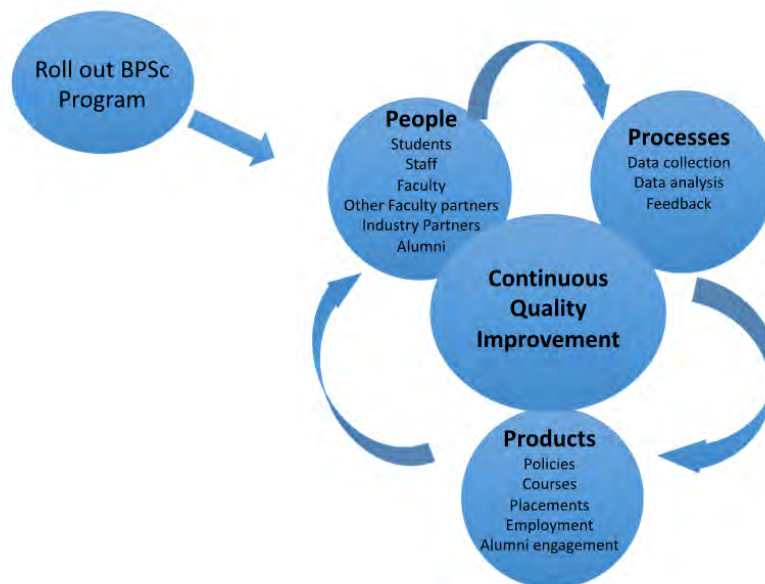
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³ British Columbia Labour Market Outlook 2017 edition. Government of British Columbia, Victoria BC.
<http://catalogue.data.gov.bc.ca/dataset/labour-market-outlook>

Schematic Overview of Planned Program Evaluation



Intake and completion metrics (Ofc. Communications, Admissions & Records, Student Services):

- Outreach to schools – type (advertising, in-school visits, open days); number, return on investment.
- Website metrics, Twitter metrics, other social media
- Application numbers vs. seats (50)
- Acceptance GPA
- Entry GPA vs. completion rate
- Program GPA vs. completion rate
- Direct entry as compared to transfer-in vs. completion rate
- Attrition rate (by year, by domestic vs. international students, by leaving for another program vs. failure rate)
- Diversity – Indigenous students, visible minorities, students with disabilities
- Our Program completion rate vs. UBC norms
- Percent International vs. domestic and BC vs. other provinces
- Determination of alignment of reported outcomes with program objectives

Student Feedback (survey evaluation – Ofc. of Educational Support and Development [OESD])

- Feedback on transition from basic science (years 1/2) to pharm Sci
- Individual Course/Class feedback
 - Teaching Evaluations
 - Student input into syllabus and curriculum
 - Pass rates
- Feedback from courses in Arts, Science Faculty
- Feedback on overall curriculum work load by year
- Feedback on placements – utility, environment, competitiveness
- Feedback on practical laboratories – ease/difficulty, practicality, value of hands-on experience vs. didactic

- Feedback on Elective choices – enough? Desirable to have choice or confusing/difficult? Ability to take summer electives and lower workload during academic term.
- Post-graduation – Jobs & what sector, Graduate School, Professional school, alumni engagement

Faculty and Instructional Feedback (primarily survey evaluation - OESD)

- Faculty workload – BOTH individual perceptions and also actual tracked hours from UBC Pharmaceutical Sciences Academic workload model
- Balance of tenure track to instructional (Lecturer, Sessional) faculty and staff
- Utility of TAs – marking, invigilation, teaching labs
- Survey of TAs - workload, engagement, learning to teach
- Balance of responsibilities between Pharmacy and Science

Staff feedback (primarily survey evaluation – OESD, Ofc. Experiential Education [OEE], Senior Management)

- Workload on Program Assistants and Directors
- Input from Student Services – student issues (same or different to Pharmacy), student mental health issues vs. student curricular stress, direct entry students vs. transfers, access & diversity
- Input from OEE – ease of placement with industrial partners, practicalities of scheduling practicums, “certifying” sites, Supervisor training
- Input from Assessment – balancing tests/exams and assessment for practicums, projects and seminars. Continuous learning with new assessment tools and balance with older modalities.
- HR issues
- Budget Issues

Employer/Industrial Partner Feedback

- Number of placements
- Hiring placement students
- Feedback on student preparedness – academic preparedness and hands-on skills
- Site visits from OEE
- Non-completed placements
- Instructor/Supervisor assessment of Practicum students
- Industrial partner lecturing/teaching hours and input into curriculum, including updates/change

Proposed Survey Tools:

“Course Eval” and “Qualtrix” software (in house). Open source for remote users (e.g. Survey Monkey)

Proposed Feedback Tools (non-survey)

- Small group discussions/round tables around non-surveyable issues such as contact with faculty, diversity, student perceptions of the learning environment.
- Invite industrial partners to discuss with Program Director, Senior Management etc in person or by e-mail
- Piazza online discussion board for learning and engagement (peer-to-peer and student:faculty)
- Feedback to students through UBC Pharmaceutical Sciences “Hub” portal where implemented changes can be clearly described.
- Annual lunch with BPSc director and/or Dean and/or Associate Dean for each year cohort
- Student Representatives on committees (e.g. Academic Committee, FAC)
- Donor and Contributor interactions with the program

UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: Pharmaceutical Sciences Department: N/A Faculty Approval Date: 10 January 2019 Effective Session (W or S): W Effective Academic Year: 2020</p>	<p>Date: 29 November 2018 Contact Person: Abby Collier Phone: 604 827-2380 Email: abby.collier@ubc.ca</p>
<p>Proposed Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Introduction</p> <p>Introduction</p> <p>Dean's Office M. Coughtrie, Dean T. Chang, Associate Dean, Research, Graduate and Post-doctoral Studies S. Jarvis-Selinger, Associate Dean, Academic P. Zed, Associate Dean, Practice Innovation Entry-to-Practice PharmD Program: 604.827.0777 Flexible PharmD Program: 604.822.1945 Residency Inquiries: 604.827.0777 Graduate and Post-doctoral Studies Inquiries: 604.827.0188 2405 Wesbrook Mall Vancouver, BC V6T 1Z3 Fax: 604.822.3035 Pharmaceutical Sciences Website</p> <p>The Faculty of Pharmaceutical Sciences offers courses leading to the Bachelor of Pharmaceutical Sciences, Doctor of Pharmacy, Master of Science, and Doctor of Philosophy.</p> <p>The Bachelor of Pharmaceutical Sciences prepares graduates for employment in the biotechnology and pharmaceutical industries; government affairs, relations and policy; regulatory affairs; industrial manufacturing; the personal care product and nutraceutical</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm? tree=12,213,396,0</p> <p>Present Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Introduction</p> <p>Introduction</p> <p>Dean's Office M. Coughtrie, Dean T. Chang, Associate Dean, Research, Graduate and Post-doctoral Studies S. Jarvis-Selinger, Associate Dean, Academic P. Zed, Associate Dean, Practice Innovation Entry-to-Practice PharmD Program: 604.827.0777 Flexible PharmD Program: 604.822.1945 Residency Inquiries: 604.827.0777 Graduate and Post-doctoral Studies Inquiries: 604.827.0188 2405 Wesbrook Mall Vancouver, BC V6T 1Z3 Fax: 604.822.3035 Pharmaceutical Sciences Website</p> <p>The Faculty of Pharmaceutical Sciences offers courses leading to the Doctor of Pharmacy, Master of Science, and Doctor of Philosophy. The Entry-to-Practice Doctor of Pharmacy prepares graduates for contemporary and future pharmacy practice in healthcare settings such as community, primary care, ambulatory care, and hospital practice; and for industry, government, and other specialized fields. The Flexible Doctor of Pharmacy provides an opportunity for pharmacists with a bachelor's degree in Pharmacy to obtain a</p>

<p>industries; health care and allied health care professions; and, transition to academic research. The Entry-to-Practice Doctor of Pharmacy prepares graduates for contemporary and future pharmacy practice in healthcare settings such as community, primary care, ambulatory care, and hospital practice; and for industry, government, and other specialized fields. The Flexible Doctor of Pharmacy provides an opportunity for pharmacists with a bachelor's degree in Pharmacy to obtain a degree equivalent to the Entry-to-Practice Doctor of Pharmacy.</p> <p>For information on graduate programs, see Pharmaceutical Sciences.</p> <p>The Faculty of Pharmaceutical Sciences was established in 1945 and is housed in the Pharmaceutical Sciences Building, 2405 Wesbrook Mall.</p>	<p>degree equivalent to the Entry-to-Practice Doctor of Pharmacy.</p> <p>For information on graduate programs, see Pharmaceutical Sciences.</p> <p>The Faculty of Pharmaceutical Sciences was established in 1945 and is housed in the Pharmaceutical Sciences Building, 2405 Wesbrook Mall.</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p> <p>The Faculty is proposing a new credential, the Bachelor of Pharmaceutical Sciences, after extensive research of degree name options. Internationally, the Bachelor of Pharmaceutical Sciences exists in Asia and Australia, and has achieved credential recognition. Bachelor of Science in Pharmaceutical Sciences was considered but rejected in favour of differentiation from Bachelor of Science offerings from the Faculty of Science. The closest Canadian program is the Université de Montréal's Baccalauréat en sciences biopharmaceutiques. The Bachelor of Pharmaceutical Sciences credential will be abbreviated B.P.Sc.</p>
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences</p> <p>The Faculty of Pharmaceutical Sciences</p> <p>Contents Introduction</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,213,0,0</p> <p>Present Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences</p> <p>The Faculty of Pharmaceutical Sciences</p> <p>Contents Introduction</p>

<p>Bachelor of Pharmaceutical Sciences</p> <p>Entry-to-Practice Doctor of Pharmacy</p> <p>Flexible Doctor of Pharmacy</p> <p>Bachelor of Science in Pharmacy</p> <p>Continuing Pharmacy Professional Development</p> <p>Residency Programs</p> <p>Graduate Programs</p> <p>College of Pharmacists of BC</p> <p>Pharmacy Examining Board of Canada</p> <p>Academic Staff</p>	<p>Entry-to-Practice Doctor of Pharmacy</p> <p>Flexible Doctor of Pharmacy</p> <p>Bachelor of Science in Pharmacy</p> <p>Continuing Pharmacy Professional Development</p> <p>Residency Programs</p> <p>Graduate Programs</p> <p>College of Pharmacists of BC</p> <p>Pharmacy Examining Board of Canada</p> <p>Academic Staff</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p> <p>Note that the Bachelor of Science in Pharmacy (B.Sc.(Pharm)) is no longer accepting applicants and has already graduated its last full cohort. We anticipate that the Calendar statement for that program will be deleted prior to the first class of the Bachelor of Pharmaceutical Sciences (B.P.Sc.) entering their program.</p>
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences</p> <p>Bachelor of Pharmaceutical Sciences</p> <p>Contents</p> <p>Introduction</p> <p>Academic Advising</p> <p>Admission</p> <p>Registration</p> <p>Academic Regulations</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>

<p>Academic Recognition, Promotion, and Continuation</p> <p>Degree Requirements</p> <p>Experiential Options in Year Four</p>	
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Introduction</p> <p><u>Introduction</u></p> <p>The program leading to the Bachelor of Pharmaceutical Sciences credential is designed to prepare graduates for careers in the pharmaceutical research industry and for further studies in pharmaceutical sciences graduate programs.</p> <p>By the end of their four-year undergraduate degree, students will:</p> <ul style="list-style-type: none"> • Apply the knowledge and practical skills gained in this program to contribute to the discovery, development and evaluation of drugs and therapies. • Be able to contribute to the broad discourse between academic, industry and government professionals through specific training provided by our Faculty that enables these students to understand and be proficient in the types of language required in these sectors. • Meaningfully contribute to social, political and economic discussions as professionals, entrepreneurs and emerging leaders in the area of pharmaceutical science. <p>The Faculty of Pharmaceutical Sciences also offers an undergraduate Doctor of Pharmacy (Pharm.D.) degree program that prepares graduates for the practice of pharmacy in a variety of healthcare settings. For more information about the Entry-to-Practice Doctor of Pharmacy program, see Entry-to-Practice PharmD.</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Note: Throughout this document, <u>double underline</u> indicates “title”, <u>single underline</u> indicates “subtitle” formatting.</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>

<p>For graduate programs in the Faculty of Pharmaceutical Sciences, see Graduate Programs.</p>	
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Academic Advising</p> <p><u>Academic Advising</u></p> <p>Advising is not required for most students but is available on request. Depending on the student's academic circumstances (e.g., academic probation, request for academic concession, or other matters), the Faculty reserves the right to make advising mandatory prior to registration.</p> <p>Academic advising is required for Honours students.</p> <p>The Office of Student Services is open Monday to Friday, in room 1300 of the Pharmaceutical Sciences Building. Student Resource staff are available to assist undergraduate students in their general academic planning, in interpreting Faculty regulations and course requirements, and in resolving academic and personal problems. Additional student support resources can be found here.</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Admission</p> <p><u>Admission</u></p> <p><u>General Information</u></p> <p>The Faculty has a broad-based admission policy that takes into consideration academic performance and evidence of other characteristics and qualities, to select the most competitive students for the Bachelor of Pharmaceutical Sciences program. As part of this process,</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>

academically competitive applicants will be required to participate an interview.

UBC's procedures, policies, and general admission requirements are specified in [Admissions](#). Further admission information is available from the [Faculty](#).

Meeting the minimum prescribed admission requirements means only that the applicant is eligible for selection but in no way guarantees admission. As enrolment in the program is limited, the average required for admission is higher than the published University minimum.

Admission from Secondary School

Admission from Secondary School is to Year One of the program. Admissibility is determined on the basis of a number of factors including performance in [specific high school courses](#), evidence of relevant learning and achievements both in and out of school, and other indicators of suitability for the Bachelor of Pharmaceutical Sciences program at UBC. As a part of the admissions process, all applicants are required to submit a personal profile.

Admission as a Post-Secondary Transfer

Admission as a post-secondary transfer applicant is to Year Two of the program. Post-secondary transfer applicants must meet competitive admission requirements for entry. Full details on admission as a post-secondary transfer student are described under “[Applicants from a Post Secondary Institution](#)”. Applicants are not admitted into the third or fourth years of the Program.

Students must have completed the following UBC courses (or their equivalents):

- BIOL 112 and one of BIOL 153 or BIOL 155
- CHEM 121 and CHEM 123

<ul style="list-style-type: none">• One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184• One of MATH 101, MATH 103, MATH 105, MATH 121• One of ENGL 112 or WRDS 150• 3 credits of electives <p>Transfer credit will be assessed after admission has been achieved. Once admitted, students are required to take PHAR 180 in addition to Year Two requirements.</p> <p><u>Transfer from another UBC Program</u></p> <p>UBC students, including Vantage College students, who wish to transfer to the Bachelor of Pharmaceutical Sciences program must follow the procedures, policies, and admission requirements specified in Change of Degree Program/Campus or Readmission.</p> <p>Students applying for admission from another UBC program are subject to the requirements noted above under Admission as a Post-Secondary Transfer.</p>													
<p>Proposed Calendar Entry: Homepage > Admissions > Program Requirements for Canadian Secondary School Applicants</p> <p>Program Requirements for Canadian Secondary School Applicants</p> <p>Please note that this section of the UBC Calendar has been updated with information specific to undergraduate admissions in 2019. For information regarding undergraduate admissions in 2018, please see the archived version of the 2017/18 Academic Calendar.</p> <table><tr><th>Program</th><th>Minimum Requirements</th><th>Overall Assessment based upon grades in the following</th></tr><tr><td></td><td></td><td></td></tr></table>	Program	Minimum Requirements	Overall Assessment based upon grades in the following				<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,325,0,0</p> <p>Present Calendar Entry: Homepage > Admissions > Program Requirements for Canadian Secondary School Applicants</p> <p>Program Requirements for Canadian Secondary School Applicants</p> <p>Please note that this section of the UBC Calendar has been updated with information specific to undergraduate admissions in 2019. For information regarding undergraduate admissions in 2018, please see the archived version of the 2017/18 Academic Calendar.</p> <table><tr><th>Program</th><th>Minimum Requirements</th><th>Overall Assessment based upon grades in the following</th></tr><tr><td></td><td></td><td></td></tr></table>	Program	Minimum Requirements	Overall Assessment based upon grades in the following			
Program	Minimum Requirements	Overall Assessment based upon grades in the following											
Program	Minimum Requirements	Overall Assessment based upon grades in the following											

courses			courses		
All	Recommendation: A minimum of six Grade 12 courses are recommended. Approved equivalent International Baccalaureate, Advanced Placement, or Post-Secondary courses may also be used.	All Grade 11 and Grade 12 courses. ¹	All	Recommendation: A minimum of six Grade 12 courses are recommended. Approved equivalent International Baccalaureate, Advanced Placement, or Post-Secondary courses may also be used.	All Grade 11 and Grade 12 courses. ¹
Program	Minimum Pre-Requisite Courses	Core Program-Specific Assessment based upon Grade 11 and Grade 12 course grades ¹ from the following subject categories:	Program	Minimum Pre-Requisite Courses	Core Program-Specific Assessment based upon Grade 11 and Grade 12 course grades ¹ from the following subject categories:
Arts	English 12 or English 12 First Peoples Pre-Calculus 11 or Foundations of Math 12 ² (Students intending to major in Economics must complete Pre-Calculus 12) A language 11 ³ or waiver An approved Grade 11 science ⁴	Language Arts Mathematics & Computation Second Languages Social Studies Visual and Performing Arts	Arts	English 12 or English 12 First Peoples Pre-Calculus 11 or Foundations of Math 12 ² (Students intending to major in Economics must complete Pre-Calculus 12) A language 11 ³ or waiver An approved Grade 11 science ⁴	Language Arts Mathematics & Computation Second Languages Social Studies Visual and Performing Arts
Commerce	English 12 or English 12 First Peoples Pre-Calculus 12 A language 11 ³ or waiver An approved Grade 11 science ⁴	Language Arts Mathematics & Computation ⁵ Social Studies ⁶	Commerce	English 12 or English 12 First Peoples Pre-Calculus 12 A language 11 ³ or waiver An approved Grade 11 science ⁴	Language Arts Mathematics & Computation ⁵ Social Studies ⁶
...
Pharmaceutical Sciences	English 12 or English 12 First Peoples Pre-Calculus 12 One of Biology 12, Chemistry 12, or Physics 12 Chemistry 11 Physics 11 A language 11 ³ or waiver	Language Arts Sciences Mathematics & Computation			
Science	English 12 or English 12 First Peoples Pre-Calculus 12 One of Biology 12, Chemistry 12, or Physics 12 Chemistry 11 Physics 11 A language 11 ³ or waiver	Language Arts Sciences Mathematics & Computation	Science	English 12 or English 12 First Peoples Pre-Calculus 12 One of Biology 12, Chemistry 12, or Physics 12 Chemistry 11 Physics 11 A language 11 ³ or waiver	Language Arts Sciences Mathematics & Computation

	<p>Type of Action: New line for Bachelor of Pharmaceutical Sciences within <i>Program Requirements for Canadian Secondary School Applicants</i> table in Admissions section of the Calendar.</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Registration</p> <p><u>Registration</u></p> <p>Students should also refer to the University's detailed registration information and other guidance at Current Students.</p> <p>Students are encouraged to register on their assigned date of registration. Enrolment in the required courses of the program is limited and admission to the program does not guarantee that space will be available in any specific course, or section, as per the University's policy on space in courses. Students are encouraged to consult the Office of Student Services for details of any restrictions on enrolment.</p> <p>Students enrolled in courses offered by other UBC Faculties must abide by the Academic Regulations of the offering Faculty.</p> <p>Students may not attend courses for which they have not registered or attend sections of courses other than those in which they are registered.</p> <p>It is the responsibility of students to determine that they are registered and have selected courses for which they have the prerequisite. Students who are registered on wait-lists are expected to</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>

<p>check on-line to determine whether they have been placed in the course by the program; such changes in registration may occur after classes start.</p> <p>Credit excluded courses are courses that have sufficient overlap in content that credit will be given for only one course or combination of courses listed in the Faculty of Science's Credit Exclusion Lists. Credit excluded courses are not equivalent, so permission of a program advisor is required for substitution of a required course with a course from the Credit Exclusion Lists.</p> <p>Students registered in any PHAR course that has a laboratory must attend their first scheduled laboratory class in that course. Failure to do so may result in termination of the student's registration in the course. Students who are unable to attend their first scheduled laboratory class in a course must notify the Office of Student Services within 48 hours of the time affixed for that class or have their registration in the course terminated.</p> <p>Within time limits students may drop or withdraw from courses using the Student Service Centre. After these dates, students are not normally permitted to withdraw from courses but may apply for Academic Concession (see Campus-wide Policies and Regulations > Academic Concession).</p>	
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Academic Regulations</p> <p><u>Academic Regulations</u></p> <p>Students are reminded that they are subject to the University's Campus-wide Policies and Regulations, and are directed especially to Student Declaration and Responsibility, Academic Honesty and Standards, and Academic Freedom.</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>

All members of the Faculty of Pharmaceutical Sciences, including students, are expected to exhibit the highest standards of conduct. For more information, see [UBC Faculty of Pharmaceutical Sciences code of conduct](#).

Attendance and Academic Concession

Regular attendance is expected of students in all course components, including lectures, laboratories, tutorials, workshops, discussions, and seminars. Students who neglect academic work and assignments in a course, or who fail to attend a sufficient number of classes, put themselves in danger of failure and may not be permitted to write the final examination. Students who are unavoidably absent from scheduled classes because of illness or disability should contact the Office of Student Services. Students whose attendance or academic performance is severely affected by medical or other extenuating circumstances should apply for academic concession through the Office of Student Services or UBC Centre for Accessibility. See [UBC Academic Concession](#).

Email Communication

Email is the official means of communication for the Faculty of Pharmaceutical Sciences, and is used by Faculty of Pharmaceutical Sciences members to relay important messages to students. It is the responsibility of all Pharmaceutical Sciences students to ensure that their current email address is accurately recorded on UBC's [Student Service Centre](#), and to read email sent to that account on a regular basis. Free [email accounts](#) are available to all UBC students, this program will require the use of the @alumni email address for official correspondence. University staff members are not responsible for resending returned messages or for the consequences of messages not received due to full mailboxes, spam blockers, inactive addresses, etc. Students should inquire about and follow their instructors' policies on email communication. All

<p>use of email is governed by UBC's Policy #104, Acceptable Use and Security of UBC Electronic Information and Systems and the accompanying Information Security Standards.</p>	
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Academic Recognition, Promotion, and Continuation</p> <p><u>Academic Recognition, Promotion, and Continuation</u></p> <p><u>Dean's List</u></p> <p>Dean's List designation recognizes exceptional academic achievement in the Faculty of Pharmaceutical Sciences.</p> <p>Students who complete at least 27 percentage-graded credits in a Winter Session, and who achieve an average of 85% or higher on at least 27 of these credits, will receive the notation "Dean's List" on their permanent record.</p> <p><u>Scholarships and Awards</u></p> <p>For information on scholarships and awards available to academically outstanding students, see Awards, scholarships and bursaries. See also Fees, Financial Assistance, and Scholarships.</p> <p><u>Class Standing at Graduation</u></p> <p>Graduation Class Standing appears on the transcript, and is awarded based on grades earned for at least 48 upper-level credits. These must include all upper-level credits used to satisfy degree or specialization requirements, and can include the best upper-level electives, as necessary, to reach a total of 48 credits. Using this calculation, students who achieve an average of 80% or higher receive Class 1 standing. Those with an average between 65% and 79.9% receive Class 2 standing, and those with an average of</p>	<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>

64.9% or lower receive Class P (Pass) standing.

Promotion Requirements

Students are reminded that they are subject to the University's [Advancement Regulations](#).

In order to progress from one year-level standing to the next, a student must successfully complete the required courses as outlined in the Degree Requirements table *<link to: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Degree Requirements>*. These may include transfer credit as well as credit earned through exchange. Year-level standing impacts a student's eligibility for specializations and courses, and is one of the factors considered when registration dates are set. Promotion is evaluated annually upon completion of the Winter Session.

Continuation Requirements

Continuation, or a student's eligibility to continue registering in their degree program, is evaluated annually upon completion of the Winter Session. Continued registration eligibility is granted based on the Sessional Average for the Winter Session, as well as a review of previous Sessional Standings and specific continuation requirements.

Students who fail in two attempts at any single required course of the B.P.Sc. program will be required to discontinue from the Faculty of Pharmaceutical Sciences, regardless of their Sessional Standing and Continuation Status. These attempts may be from the same or different Sessions.

Continuation is evaluated as follows:

Winter Session Average	ACPR or Fail already on Record	Sessional Standing	Continuation Status
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<table><tr><td>55% or more</td><td>N/A</td><td>Pass¹</td><td>Eligible to continue</td></tr><tr><td>50% to 54.9%</td><td>No</td><td>ACPR²</td><td>Eligible to continue</td></tr><tr><td>50% to 54.9%</td><td>Yes</td><td>Fail^{2, 4}</td><td>Required to withdraw</td></tr><tr><td>less than 50%</td><td>N/A</td><td>Fail^{3,4}</td><td>Required to withdraw</td></tr></table> <p>¹ Students who attain a sessional average of 55% or more will be assigned 'Pass' standing and will be eligible to continue their studies. Those who do exceptionally well may also receive recognition; see Dean's List above.</p> <p>² Students who attain a sessional average between 50% and 54.9% will be placed on Academic Probation (ACPR). This will be noted on their academic record. They will be eligible to continue their studies unless they have previously received 'Fail' or 'ACPR' standing in the Faculty of Pharmaceutical Sciences, in which case they will be assigned a 'Fail' standing and required to withdraw from the Faculty.</p> <p>³ Students who attain a sessional average of less than 50% in a Winter Session will be assigned a 'Fail' standing and required to withdraw from the Faculty.</p> <p>⁴ For information on readmission after receiving “Fail” standing and being required to withdraw from the Faculty, see Readmission.</p>	55% or more	N/A	Pass ¹	Eligible to continue	50% to 54.9%	No	ACPR ²	Eligible to continue	50% to 54.9%	Yes	Fail ^{2, 4}	Required to withdraw	less than 50%	N/A	Fail ^{3,4}	Required to withdraw	
55% or more	N/A	Pass ¹	Eligible to continue														
50% to 54.9%	No	ACPR ²	Eligible to continue														
50% to 54.9%	Yes	Fail ^{2, 4}	Required to withdraw														
less than 50%	N/A	Fail ^{3,4}	Required to withdraw														
<p>Proposed Calendar Entry: Homepage (draft) > Campus-wide Policies and Regulations > Grading Practices > Introduction</p> <p><u>Introduction</u></p> <p>In most faculties, individual courses are normally graded as follows:</p> <table><tr><th>Percentage (%)</th><th>Letter Grade</th></tr><tr><td>90-100</td><td>A+</td></tr><tr><td>85-89</td><td>A</td></tr><tr><td>80-84</td><td>A-</td></tr></table>	Percentage (%)	Letter Grade	90-100	A+	85-89	A	80-84	A-	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,42,96,0</p> <p>Present Calendar Entry: Homepage (draft) > Campus-wide Policies and Regulations > Grading Practices > Introduction</p> <p><u>Introduction</u></p> <p>In most faculties, individual courses are normally graded as follows:</p> <table><tr><th>Percentage (%)</th><th>Letter Grade</th></tr><tr><td>90-100</td><td>A+</td></tr><tr><td>85-89</td><td>A</td></tr><tr><td>80-84</td><td>A-</td></tr></table>	Percentage (%)	Letter Grade	90-100	A+	85-89	A	80-84	A-
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90-100	A+																
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80-84	A-																
Percentage (%)	Letter Grade																
90-100	A+																
85-89	A																
80-84	A-																

76-79	B+	76-79	B+
72-75	B	72-75	B
68-71	B-	68-71	B-
64-67	C+	64-67	C+
60-63	C	60-63	C
55-59	C-	55-59	C-
50-54	D	50-54	D
0-49	F (Fail)	0-49	F (Fail)
...		...	
<p>The schools of Library, Archival and Information Studies, Nursing, and Rehabilitation Sciences define Fail (F) as below 60%. The Faculty of Medicine defines Fail (F) as below 60% unless otherwise specified in the course Policy and Procedure Manual. In the Faculty of Pharmaceutical Sciences, a Fail (F) is defined as below 60% for all percentage-graded courses offered by the Faculty of Pharmaceutical Sciences, and in accordance with passing grades defined by non-Faculty of Pharmaceutical Sciences courses in other University faculties for the entry-to-practice and flexible Doctor of Pharmacy programs and graduate programs. In the Bachelor of Pharmaceutical Sciences, a Fail (F) is defined as below 50%.</p>		<p>The schools of Library, Archival and Information Studies, Nursing, and Rehabilitation Sciences define Fail (F) as below 60%. The Faculty of Medicine defines Fail (F) as below 60% unless otherwise specified in the course Policy and Procedure Manual. The Faculty of Pharmaceutical Sciences defines a Fail (F) as below 60% for all percentage-graded courses offered by the Faculty of Pharmaceutical Sciences, and in accordance with passing grades defined by non-Faculty of Pharmaceutical Sciences courses in other University faculties.</p> <p>Type of Action: Revise Pharmaceutical Sciences references in <i>Grading Practices > Introduction</i> to reflect a 50% passing grade for the Bachelor of Pharmaceutical Sciences. 60% remains the passing grade for the PharmD and graduate programs.</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>	
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > The Faculty of Pharmaceutical Sciences > Bachelor of Pharmaceutical Sciences > Degree Requirements</p> <p><u>Degree Requirements</u></p>		<p>URL: NEW PAGE</p> <p>Present Calendar Entry:</p> <p>Type of Action: New Program Entry</p>	

The Bachelor of Pharmaceutical Sciences degree requires successful completion of the prescribed curriculum in Years One through Four as described in the table(s) below. B.P.Sc. with Honours (B.P.Sc. (Hons)) requires additional credit in Year Three and Year Four as described below.

Year One – Mandatory subjects	
BIOL 112 and 155 – OR – BIOL 112 and 153	9 (10)
CHEM 111 OR – CHEM 121 and 123	8
ENGL 112	3
One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180 or MATH 184	3 (4)
One of MATH 101, MATH 103, MATH 105, or MATH 121	3 (4)
PHAR 180	1
Elective	3
Total for Year One	30 (33)
Year Two – Mandatory Subjects	
CHEM 211	4
CHEM 233	3
CHEM 235	1
MICB 202	3
PHAR 202	3
PHAR 203	3
PHAR 204	3
PHAR 205	3
PHAR 280	1
STAT 200 ¹	3
Elective	3
Total for Year Two	30
Year Three – Mandatory subjects	
PHAR 303	3
PHAR 304	3
PHAR 305	3
PHAR 306	3
PHAR 308	3
PHAR 309	3
PHAR 370	3
PHAR 380	3
Electives	3 (6) ²
Total for Year Three	30 (33)²
Year Four – Course-based option	
PHAR 470	4
PHAR 480	1
Electives ³	25
Total for Year Four	30
Total for Program	120

¹BIOL 300 may be substituted for students who meet the

Rationale for Proposed Change:

See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.

prerequisite requirements.

² Students that declare Honours may take an extra 3 Credits of electives in Year Three.

³ No more than 10 credits of Electives may be taken outside of Pharmaceutical Sciences for credit towards B.P.Sc. in Year Four.

Bachelor of Pharmaceutical Sciences Experiential Options in Year Four

Students must apply for Experiential options in Year Three, by end of Term 1. There are two options: Research and Practicum. Students applying for Research or Practicum do not have to simultaneously apply for Honours.

Additionally, students may apply for Honours in Year Three, by the end of Term 1. Students eligible for Honours must maintain a minimum of 72% combined average in all years. The designation requires the preparation of a graduating thesis. Honours theses may be prepared from either Research Experiential or Practicum Experiential options.

Research Experiential Option

The Research Experiential Option provides a research experience equivalent to one full-time term of work in a professional area of Pharmaceutical Research including basic science, clinical, educational, outcome-related, pedagogical or other research in the pharmaceutical sciences (broadly interpreted). The knowledge gained is also intended to strengthen the individual's applied skills for their future career in Academic or Industrial setting(s) to a national/international standard. Direct supervision by a member of faculty from Pharmaceutical Sciences is required, although Co-supervision with a Researcher from another faculty is allowed.

<i>Year Four – Research Experiential Option</i>	
PHAR 470	4
PHAR 480	1
PHAR 485	15
Electives	10 ¹

Total for Year Four	30
Total for Program	120
¹ No more than 3 credits of electives can be taken outside of Pharmaceutical Sciences in Year Four	

Practicum Experiential Option

The Practicum Experiential Option provides experience equivalent to one full-time term of work placed directly with a governmental, contract research, manufacturing or other to industrial partner, to learn the skills required to be a functional member of these environments. The knowledge gained is also intended to strengthen the individual's applied skills for their future career in Academic or Industrial setting(s). Direct supervision by a professional member of these sectors and co-supervision from a member of faculty from Pharmaceutical Sciences is required.

<i>Year Four – Practicum Option</i>	
PHAR 470	4
PHAR 480	1
PHAR 495	15
Electives	10 ¹
Total for Year Four	30
Total for Program	120
¹ No more than 3 credits of electives can be taken outside of Pharmaceutical Sciences in Year Four	

Experiential Options with Honours

The Honours option is applied for in Year Three at the end of Term 1. Honours students are required to enroll in an extra 3 credits of electives in Year Three. In Year Four, Honours students are expected to take 3 extra credits of electives (in any term) and enroll in PHAR 491 Honours Thesis. Honours is designed for students who wish to take part in advanced research and study and may lead to direct entry into advanced graduate programs (e.g. PhD).

<i>Year Four – Honours Option</i>	
PHAR 470	4
PHAR 480	1
PHAR 485 or 495 (research experiential or practicum)	15
PHAR 490	12

Electives	7 ¹																													
Total for Year Four	39																													
Total for Program	132																													
¹ No more than 3 credits of electives can be taken outside of Pharmaceutical Sciences in Year Four																														
<p>Proposed Calendar Entry: Homepage > Faculties, Colleges, and Schools > Courses of Study and Degrees > Pharmaceutical Sciences</p> <p>Pharmaceutical Sciences</p> <table><tr><td>Entry-to-Practice Doctor of Pharmacy</td><td>Pharm.D.</td></tr><tr><td>Bachelor of Pharmaceutical Sciences</td><td>B.P.Sc.</td></tr><tr><td>Bachelor of Science in Pharmacy</td><td>B.Sc. (Pharm.)</td></tr><tr><td>Master of Science</td><td>M.Sc.</td></tr><tr><td>Flexible Doctor of Pharmacy</td><td>Pharm.D.</td></tr><tr><td>Graduate Doctor of Pharmacy</td><td>Pharm.D.</td></tr><tr><td>Doctor of Philosophy</td><td>Ph.D.</td></tr></table>		Entry-to-Practice Doctor of Pharmacy	Pharm.D.	Bachelor of Pharmaceutical Sciences	B.P.Sc.	Bachelor of Science in Pharmacy	B.Sc. (Pharm.)	Master of Science	M.Sc.	Flexible Doctor of Pharmacy	Pharm.D.	Graduate Doctor of Pharmacy	Pharm.D.	Doctor of Philosophy	Ph.D.	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,4,25,0</p> <p>Present Calendar Entry: Homepage > Faculties, Colleges, and Schools > Courses of Study and Degrees > Pharmaceutical Sciences</p> <p>Pharmaceutical Sciences</p> <table><tr><td>Entry-to-Practice Doctor of Pharmacy</td><td>Pharm.D.</td></tr><tr><td></td><td></td></tr><tr><td>Bachelor of Science in Pharmacy</td><td>B.Sc. (Pharm.)</td></tr><tr><td>Master of Science</td><td>M.Sc.</td></tr><tr><td>Flexible Doctor of Pharmacy</td><td>Pharm.D.</td></tr><tr><td>Graduate Doctor of Pharmacy</td><td>Pharm.D.</td></tr><tr><td>Doctor of Philosophy</td><td>Ph.D.</td></tr></table> <p>Type of Action: Update the list of programs of study and degrees offered by the Faculty of Pharmaceutical Sciences.</p> <p>Rationale for Proposed Change: See UBC Faculty of Pharmaceutical Sciences new program proposal for the Bachelor of Pharmaceutical Sciences.</p>	Entry-to-Practice Doctor of Pharmacy	Pharm.D.			Bachelor of Science in Pharmacy	B.Sc. (Pharm.)	Master of Science	M.Sc.	Flexible Doctor of Pharmacy	Pharm.D.	Graduate Doctor of Pharmacy	Pharm.D.	Doctor of Philosophy	Ph.D.
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Doctor of Philosophy	Ph.D.																													

UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: Pharmaceutical Sciences Department: n/a Faculty Approval Date: Jan. 10, 2019 Effective Session (W or S): Winter Effective Academic Year: 2020</p>	<p>Date: 30 October 2018 Contact Person: Abby Collier Phone: 7-2380 Email: abby.collier@ubc.ca</p>
<p>Proposed Calendar Entry: PHAR 180 (1) Pharmaceutical Topics and Communication Seminar I Current topics in the Pharmaceutical Sciences and basic skills for a short presentation on a biological science topic. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR Present Calendar Entry: N/A Type of Action: New Course Rationale for Proposed Change: This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program. <input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only) Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F. <input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 202 (3) Biochemical Pharmacology Biochemical pharmacology including fundamental aspects of enzymology, biochemistry, enzyme kinetics, drug metabolism and pharmacokinetics. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR Present Calendar Entry: N/A Type of Action: New Course Rationale for Proposed Change:</p>

	<p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 203 (4) Drug Delivery Technologies and Personalized Medicine</p> <p>Biopharmaceuticals, pharmaceuticals, formulations, nanomedicine, and precision medicine as they apply to pharmaceutical sciences.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 204 (3) Pharmaceutical Research</p> <p>Types of research scientists in Academia and Industry undertake across the broad range of Pharmaceutical Science Disciplines.</p> <p><i>This course is not eligible for Credit/D/Fail</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p>

<p><i>grading.</i></p>	<p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 205 (3) Clinical Epidemiology & Pharmaceutical Outcomes I</p> <p>Population-level study designs and critical appraisal skills in evidence evaluation, with a special emphasis on evidence-based pharmacy practice.</p> <p>Pre-requisite: One of STAT 200, BIOL 300.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 280 (1) Pharmaceutical Topics and Communication Seminar II</p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p>

<p>Current topics in the Pharmaceutical and Biotechnology Industry and intermediate level skills for a short presentation.</p> <p>Pre-requisite: PHAR 180</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 302 (3) Pharmacokinetics and Pharmacogenomics</p> <p>Basic pharmacokinetic concepts: metabolism, clearance, volume of distribution, half-life, and hepatic clearance. Basic pharmacogenomics concepts of genetic polymorphism.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p>	<p>URL: PHAR</p> <p>Present Calendar Entry:</p>

<p>PHAR 303 (3) Nanomedicine</p> <p>Advanced nanomedicine concepts for drug packaging, delivery and efficacy.</p> <p>Pre-requisite: PHAR 202.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 304 (3) Biopharmaceutics Theory and Laboratory</p> <p>Theoretical and practical knowledge of the areas of formulation, drug delivery and biological drugs commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries.</p> <p>Prerequisites: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
	<p>URL:</p>

<p>Proposed Calendar Entry:</p> <p>PHAR 305 (3) Clinical Epidemiology & Pharmaceutical Outcomes II</p> <p>Population-level study designs and their critical appraisal skills in evidence evaluation, with a special emphasis on evidence-based pharmacy practice and the practical application of population-level data analysis and interpretation.</p> <p>Pre-requisite: PHAR 205.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 306 (3) Medicinal Chemistry of High-Impact Pharmaceuticals in Major Diseases</p> <p>Structure and mechanism of action of drugs used in the treatment of major chronic diseases: heart disease, cancer, lung disease, and diabetes.</p> <p>Pre-requisites All of CHEM 233, PHAR 202.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail</p>

	grading
<p>Proposed Calendar Entry:</p> <p>PHAR 307 (3) Analytical Sciences Theory and Laboratory</p> <p>Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries.</p> <p>Pre-requisites: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 308 (3) Systematic Pharmacology</p> <p>General principles of pharmacodynamics and pharmacokinetics: drug action on nervous, cardiovascular, GI and endocrine systems; beneficial and detrimental effects of drug action.</p> <p>Pre-requisite: PHAR 202.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p>

	<input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading
<p>Proposed Calendar Entry:</p> <p>PHAR 370 (4) Pharmaceutical Cases I</p> <p>Application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Development of self-directed learning skills.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F:</p> <p>This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 380 (1) Pharmaceutical Topics and Communication Seminar III</p> <p>Preliminary skills and concepts for planning, delivering and critiquing a scientific presentation using selected topics in the pharmaceutical sciences.</p> <p>Pre-requisite: PHAR 280.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL:</p> <p>PHAR</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New Course</p> <p>Rationale for Proposed Change:</p> <p>This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p>

	<p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 421 (4) Precision Medicine Skills and concepts in pharmacogenomics as applied to medical practice and dosing. Prerequisite: PHAR 203 <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 422 (3) Pharmacoeconomics Evidence evaluation skills and understanding the role of, and the methods and principles used in, health economics and economic evaluation in healthcare, with a focus on health technology assessment studies. Pre-requisite: PHAR 305. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p>

	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 423 (3) Pharmaceutical Outcomes Research</p> <p>Principles of qualitative research design. Practical skills in ethics, recruitment, data collection and analysis. Application of epidemiologic and statistical knowledge to a research product in the area of health services outcomes.</p> <p>Prerequisite: PHAR 305.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 424 (3) Financing and Therapeutics in the Canadian Health Care System Foundation in Canadian health care delivery systems and policies, with a focus on pharmaceutical policy and on comparison with other types of health care systems.</p> <p><i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p>

	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 425 (3) Biologics Biologics as a therapeutic: how biologics are developed as drugs; synthesis and unique properties of biologics as drugs. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry: PHAR 426 (3) Advanced Anesthetics and Analgesics Advanced concepts in anesthetic and analgesic drugs, their uses and abuses. Pre-requisite: PHAR 308. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p>

	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 427 (4) Drug Structures in Medicinal Chemistry Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. Pre-requisite: CHEM 233 and PHAR 202. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 428 (3) Clinical Chemistry Principles, practices and procedures of medical laboratory clinical chemistry. Pre-requisite: CHEM 211. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p>

	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 429 (3) Adverse Drug Reactions Molecular and physiological basis of common adverse drug reactions (ADRs). ADRs in the context of current understanding of drug metabolism and pharmacogenetics. New approaches to prediction, detection and treatment. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 432 (3) Toxicology Biochemical, cellular, and molecular processes that govern toxicity elicited by drugs and environmental toxins at the molecular, cellular, tissue, and organ system levels. Adverse drug reactions and precision medicine approaches to mitigate drug toxicity. Pre-requisite: PHAR 380. <i>This course is not eligible for Credit/D/Fail</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p>

<p>grading.</p>	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 433 (3) Advanced Pharmacokinetics Polyexponential pharmacokinetics, pharmacokinetic/pharmacodynamic modeling, pharmacokinetic predictions, physiologically-based pharmacokinetic modeling and population-based pharmacokinetic modeling. Pre-requisite: PHAR 302. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 470 (4) Pharmaceutical Cases II Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Further development and practice of self-directed learning skills. Pre-requisite: PHAR 370. <i>This course is not eligible for Credit/D/Fail</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p>

<p>grading.</p>	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 480 (1) Pharmaceutical Topics and Communication Seminar IV Senior level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences and beyond. Pre-requisite: PHAR 380. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 485 (15) Research Project Provides research experience equivalent to one full-time term of work on a defined research project in an area of pharmaceutical research. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the Research Stream within the new Bachelor of Pharmaceutical Sciences degree program.</p>

	<p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 491 (12) Honours Thesis Research project and production of a thesis document in an area of pharmaceutical research according to national/international standards. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as a required course for the Honours Stream within the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 495 (15) Practicum <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p>

	<p>Rationale for Proposed Change: This is a new course proposed as a required course for the Practicum Stream within the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>
<p>Proposed Calendar Entry:</p> <p>PHAR 497 (1-6) d Directed Studies in Pharmaceutical Sciences Registration is subject to approval of the Program Director and coordinated by the Faculty Member in Charge of Directed Studies. Pre-requisite: PHAR 204. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: PHAR</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: This is a new course proposed as an elective course for the new Bachelor of Pharmaceutical Sciences degree program.</p> <p><input checked="" type="checkbox"/> Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This is a required course and is not eligible for Cr/D/F.</p> <p><input type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading</p>



20 March 2019

To: Vancouver Senate

From: Senate Curriculum Committee

Re: March Curriculum Proposals (approval)

The Senate Curriculum Committee has reviewed the material forwarded to it by the faculties and encloses those proposals it deems as ready for approval.

The following is recommended to Senate:

Motion: *“That the new courses, revised degree requirements, reorganization of calendar pages, new concentration, and revised minors brought forward by the faculties of Applied Science, Arts, Commerce and Business Administration, Graduate and Postdoctoral Studies (Law), Peter A. Allard School of Law, Medicine, and Science be approved.”*

Respectfully submitted,

Dr. Peter Marshall, Chair

Senate Curriculum Committee

**FACULTY OF APPLIED SCIENCE***New courses*

CHBE 220 (4) Founding Principles in Chemical and Biological Engineering I; **CHBE 221 (3)** Founding Principles in Chemical and Biological Engineering II; **CHBE 263 (1)** Introduction to Chemical and Biological Engineering Laboratory Practice; **CHBE 264 (2)** Chemical and Biological Engineering Laboratory

Revised degree requirements

Bachelor of Applied Science>Chemical and Biological Engineering>Degree Requirements

FACULTY OF ARTS*New courses*

ASIA 150 (3) Asian Internets; **ASIA 336 (3)** Sufi and Bhakti Devotional Literatures; **ASIA 389 (3)** Life Writings of South Asian Diasporic Women; **ASIA 399 (3)** Films of the South Asian Diaspora; **ASIA 445 (3)** Japanese Crime Fiction; **ASIA 474 (3)** From the Chronicle to the Archive: Cultures of History in South Asia; **GREK 403 (3-6) d** Studies in Ancient Greek Prose and Verse; **HIST 100 (3)** What Is History?; **LATN 403 (3-6) d** Studies in Latin Prose and Verse; **RUSS 301 (3)** Third-Year Russian I; **RUSS 302 (3)** Third -Year Russian II

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION*Reorganization of calendar pages*

Commerce and Business Administration>Bachelor of Commerce>Co-operative Education; Commerce and Business Administration >Bachelor of Commerce>Minors and Concentrations

New concentration

Sustainability and Social Impact

FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES**Law***New courses*

LAW 550 (3) Taxation of Corporate Reorganizations; **LAW 588 (3)** Ethics and Professionalism

PETER A. ALLARD SCHOOL OF LAW*New course*

LAW 414 (3) Taxation of Corporate Reorganizations

Removal of International Degree Partnership Program

Joint Legal Education Agreement with the University of Hawai'i

FACULTY OF MEDICINE*New course*

MEDD 499 (4-8) d Clinical Electives

FACULTY OF SCIENCE*Revised minors*

Applied Animal Biology; Sustainable Agriculture and Environment; Food and Resource Economics; Food Science; Nutritional Sciences; Sustainable Food System

UBC Curriculum Proposal Form

Change to Course or Program

Category: 1

<p>Faculty: APSC Department: CHBE Faculty Approval Date: Nov. 8, 2018 Effective Session (W or S): W Effective Academic Year: 2019</p>	<p>Date: 5 September 2018 Contact Person: Louise Creagh Phone: 604-822-5787 Email: alcreagh@mail.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>CHBE 220 (4) Founding Principles in Chemical and Biological Engineering I</p> <p>Introduction to Chemical and Biological Engineering profession and the physical sciences that form the founding principles of the discipline. [3-0-2]</p> <p>Pre-requisite: CHEM 154, MATH 101</p>	<p>URL: n/a</p> <p>Present Calendar Entry: n/a</p> <p>Type of Action: Create new course.</p> <p>Rationale for Proposed Change: This course introduces students to the profession of Chemical and Biological Engineering and the underlying physical sciences of the discipline.</p> <p style="text-align: center;">X Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: This will be a required course for the Chemical Engineering and Chemical & Biological Engineering programs.</p> <p style="text-align: center;">Pass/Fail or Honours/Pass/Fail grading</p>

Category: 1

Faculty: APSC Department: CHBE Faculty Approval Date: Nov. 8, 2018 Effective Session (W or S): W Effective Academic Year: 2019	Date: 5 September 2018 Contact Person: Louise Creagh Phone: 604-822-5787 Email: alcreagh@mail.ubc.ca
Proposed Calendar Entry: CHBE 221 (3) Founding Principles in Chemical and Biological Engineering II Introduction to Chemical and Biological Engineering profession with emphasis on the biological sciences that form the founding principles of the discipline. [3-0-2*] Pre-requisite: CHBE 220	URL: n/a Present Calendar Entry: n/a Type of Action: Create new course. Rationale for Proposed Change: This course is a continuation of CHBE 220 and introduces students to the profession of Chemical and Biological Engineering with emphasis on the underlying biological sciences of the discipline. X Not available for Cr/D/F grading (undergraduate courses only) Rationale for not being available for Cr/D/F: This will be a required course for the Chemical Engineering and Chemical & Biological Engineering programs. <div style="display: flex; justify-content: space-around;"> Pass/Fail or Honours/Pass/Fail grading </div>

Category: 1

Faculty: APSC Department: CHBE Faculty Approval Date: Nov. 8, 2018 Effective Session (W or S): W Effective Academic Year: 2019	Date: 5 September 2018 Contact Person: Louise Creagh Phone: 604-822-5787 Email: alcreagh@mail.ubc.ca
Proposed Calendar Entry: CHBE 263 (1) Introduction to Chemical and Biological Engineering Laboratory Practice Introduction to Chemical and Biological Engineering laboratory practice with topics in physical, inorganic and organic chemistry. [0-2-0] Co-requisites: All of CHBE 201, CHBE 220, CHBE 241, CHEM 250, CHEM 260.	URL: n/a Present Calendar Entry: n/a Type of Action: Create new course. Rationale for Proposed Change: This course introduces students to the profession of Chemical and Biological Engineering and the underlying physical sciences of the discipline. X Not available for Cr/D/F grading (undergraduate courses only) Rationale for not being available for Cr/D/F: This will be a required course for the Chemical Engineering and Chemical & Biological Engineering programs. <div style="text-align: right;"> Pass/Fail or Honours/Pass/Fail grading </div>

Category: 1

Faculty: APSC Department: CHBE Faculty Approval Date: Nov. 8, 2018 Effective Session (W or S): W Effective Academic Year: 2019	Date: 5 September 2018 Contact Person: Louise Creagh Phone: 604-822-5787 Email: alcreagh@mail.ubc.ca
Proposed Calendar Entry: CHBE 264 (2) Chemical and Biological Engineering Laboratory Laboratory experiment in 2 nd year Chemical and Biological Engineering. [0-4-0] Pre-requisite: CHBE 263 Co-requisite: CHBE 244, CHBE 251	URL: n/a Present Calendar Entry: n/a Type of Action: Create new course. Rationale for Proposed Change: This course introduces students to the profession of Chemical and Biological Engineering and the underlying physical sciences of the discipline. X Not available for Cr/D/F grading (undergraduate courses only) Rationale for not being available for Cr/D/F: This will be a required course for the Chemical Engineering and Chemical & Biological Engineering programs. <div style="display: flex; justify-content: space-around;"> Pass/Fail or Honours/Pass/Fail grading </div>

Category: 1

Faculty: APSC Department: CHBE Faculty Approval Date: Effective Session (W or S): W Effective Academic Year: 2019	Date: 28 September 2018 Contact Person: Louise Creagh Phone: 604-822-5787 Email: alcreagh@mail.ubc.ca																																																												
Proposed Calendar Entry: <i>Chemical Engineering or Chemical and Biological Engineering</i> <table> <tr> <th colspan="2">Second Year</th></tr> <tr> <td>CHBE 201</td><td>3</td></tr> <tr> <td>CHBE 220</td><td>4</td></tr> <tr> <td>CHBE 221</td><td>3</td></tr> <tr> <td>CHBE 230</td><td>3</td></tr> <tr> <td>CHBE 241</td><td>3</td></tr> <tr> <td>CHBE 244</td><td>3</td></tr> <tr> <td>CHBE 251</td><td>3</td></tr> <tr> <td>CHBE 263</td><td>1</td></tr> <tr> <td>CHBE 264</td><td>2</td></tr> <tr> <td>CHEM 250</td><td>2</td></tr> <tr> <td>CHEM 260</td><td>3</td></tr> <tr> <td>MATH 253</td><td>3</td></tr> <tr> <td>MATH 256</td><td>3</td></tr> <tr> <td>Total Credits</td><td>36</td></tr> </table>	Second Year		CHBE 201	3	CHBE 220	4	CHBE 221	3	CHBE 230	3	CHBE 241	3	CHBE 244	3	CHBE 251	3	CHBE 263	1	CHBE 264	2	CHEM 250	2	CHEM 260	3	MATH 253	3	MATH 256	3	Total Credits	36	URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,195,272,35 Present Calendar Entry: <i>Chemical Engineering or Chemical and Biological Engineering</i> <table> <tr> <th colspan="2">Second Year</th></tr> <tr> <td>BIOL 112</td><td>3</td></tr> <tr> <td>CHBE 201</td><td>3</td></tr> <tr> <td>CHBE 230</td><td>3</td></tr> <tr> <td>CHBE 241</td><td>3</td></tr> <tr> <td>CHBE 243</td><td>1</td></tr> <tr> <td>CHBE 244</td><td>3</td></tr> <tr> <td>CHBE 251</td><td>3</td></tr> <tr> <td>CHBE 262</td><td>4</td></tr> <tr> <td>CHEM 250</td><td>2</td></tr> <tr> <td>CHEM 251</td><td>3</td></tr> <tr> <td>CHEM 260</td><td>3</td></tr> <tr> <td>MATH 253</td><td>3</td></tr> <tr> <td>MATH 256</td><td>3</td></tr> <tr> <td>Total Credits</td><td>37</td></tr> </table> Type of Action: Replace BIOL 112, CHEM 251, CHBE 243 with new courses, CHBE 220 and 221. Replace the full-year lab course, CHBE 262, with 1-term lab courses, CHBE 263 and CHBE 264. Rationale for Proposed Change: To better meet the needs of Chemical and Biological Engineering students, four new courses have been developed to introduce students to the discipline and the founding sciences underlying it and to enhance the laboratory and design experience.	Second Year		BIOL 112	3	CHBE 201	3	CHBE 230	3	CHBE 241	3	CHBE 243	1	CHBE 244	3	CHBE 251	3	CHBE 262	4	CHEM 250	2	CHEM 251	3	CHEM 260	3	MATH 253	3	MATH 256	3	Total Credits	37
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UNDERGRADUATE COURSES

ASIA: Department of Asian Studies

ASIA 150 (3) Asian Internets

Category: 1 Faculty: Arts Department: Asian Studies Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: September 25, 2018 Contact Person: Lyndsay Bocchinfuso and Bruce Rusk Phone: 2-9266 Email: lyndsay.bocchinfuso@ubc.ca
Proposed Calendar Entry: ASIA 150 (3) Asian Internets The cultures of contemporary Asia through an exploration of the uses, form, and content of online media from and about Asia.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=ASIA Present Calendar Entry: Type of Action: New course Rationale for Proposed Change: As part of a proposed revision to our first-year course offerings, ASIA 150 is intended as a more focused "topical survey," offering an alternative to the historical survey approach. It will be pan-Asian in coverage, with opportunities for contributions from all parts of Asia and on a range of topics. It will not duplicate any existing course, but will have some connections with a number of more advanced courses in the Department and serve as a gateway to the major and minor. The course is titled "Asian Internets" to reflect the idea that, although the internet is a single interconnected system, users in different parts of Asia have profoundly different experiences of online media because of both cultural-linguistic preferences and infrastructural barriers such as the "Great Firewall of China," the structure of telecommunications markets, and legal restrictions on online behaviour.

ASIA 336 (3) Sufi and Bhakti Devotional Literatures

Category: 1 Faculty: Arts	Date: September 25, 2018
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<p>Department: Asian Studies Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019</p>	<p>Contact Person: Lyndsay Bocchinfuso and Sunil Kumar Bhatt Phone: 2-9266 Email: lyndsay.bocchinfuso@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>ASIA 336 (3) Sufi and Bhakti Devotional Literatures</p> <p>Sufi and Bhakti thought and tradition in South Asia through literary works in English translation.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=ASIA</p> <p>Present Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale for Proposed Change: The tradition of devotional poetry written by Hindu saints and Muslim Sufis is deep-rooted in Indian subcontinent. Sufi and Bhakti literatures, although coming from different religious backgrounds i.e. Muslim and Hindu traditions, had many commonalities. They both challenge religious orthodoxies through negation of rigid rituals, use of vernaculars instead of sacred languages of Sanskrit and Arabic, establishing direct connection with the God bypassing the religious hierarchy of Brahmanism and Mullas etc. Their message resonated with the masses and created an enormous appeal for those who were deprived of participation in religious life in the society. This revolutionary thought is manifested in poetry in vernaculars which was accessible to the common populace who did not have formal education in religious thoughts. These Sufi and Bhakti saints had massive following regardless of religious affiliations, castes or gender. Hindus, Muslims, men, women, people from different castes all joined this spiritual movement to attain a personal devotion to a personal god.</p> <p>Indian subcontinent has a unique character because of the confluence of Hindu and Muslim religious traditions. This unique mix leads to a literature in which Sufi and Bhakti poets, while creating their literary</p>

	<p>Works, called references from both Hindu and Islamic history and mythology.</p> <p>The catalogue of ASIA courses on South Asia has only one literature course “ASIA 368 (3) Modern Literatures of South Asia in Translation”. The medieval literature which is written by Bhakti poets and Sufi saints is extremely popular among masses through oral traditions. Bhajans and qawwalis are indispensable parts of the South Asian culture. A course offering a formal study of this oral tradition will be a worthy addition to the catalogue of courses on South Asia. This course will bring together components of South Asian history, religions, and philosophy through the study of devotional literature.</p>
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ASIA 389 (3) Life Writings of South Asian Diasporic Women

<p>Category: 1 Faculty: Arts Department: Asian Studies Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019</p>	<p>Date: September 26, 2018 Contact Person: Lyndsay Bocchinfuso and Sunera Thobani Phone: 2-9266 Email: lyndsay.bocchinfuso@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>ASIA 389 (3) Life Writings of South Asian Diasporic Women</p> <p>Auto/biographies and life writings of South Asian women in the Diaspora. Emphasizes theories of representation, subjectivity, agency, difference, and memory.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=ASIA</p> <p>Present Calendar Entry:</p> <p>Type of Action: New course</p> <p>Rationale for Proposed Change: Auto/biographies and life writings link the personal to the political, lived experience to social history, the individual to the collective. Within the field of feminist and postcolonial studies, the genre of women's life narratives is defined as crucial to women's coming into visibility, finding voice, and expressing agency, resistance and empowerment. This interdisciplinary course focuses on South Asian diasporic women's auto/biographical and other life-</p>

	<p>writings to teach students what these contribute to our understanding of subjectivity, family and community relations, gendered and racialized identity formation, social history and memory, and the impact of migration in the everyday life of South Asian communities.</p> <p>The Department of Asian Studies presently offers courses on South Asia (history, culture, gender, religion and film) that sometimes include content on the diaspora. This course fills a gap in the curriculum by addressing topics related to the gender, women and the South Asian Diaspora, as there is presently only one course on offer that specifically focuses on the construction of the South Asian diaspora (ASIA 339). This course also advances the curriculum by focusing on the life narratives of women in the SA diaspora, thereby offering training to students in comparative approaches to the making of gender, family, community, and home in the cultures and practices of the various diasporas. The life writings studied in this course are centered on South Asian women's experiences in 'western' as well as 'non-western' national sites. Students will thus have the opportunity to focus on a country specific diasporic community in their course assignments even as they are encouraged to adopt an overall comparative perspective on issues of subjectivity, difference, representation, gender and race.</p> <p>This course complements ASIA 339 (The Construction of South Asian Communities in the Diaspora); ASIA 343 (Film in South Asia); and ASIA 333 (Contemporary South Asian Gender and Sexuality Studies). It will appeal to students from other Departments and Programs at UBC, including Sociology, Anthropology, Film Studies, History, English, GRSJ, Social Work and Asian-Canadian and Asian</p>
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	Migration Studies. Given the long history of South Asian migration into BC, and given the demographic changes underway across Canada and the US, this course will be very attractive to students from other diasporic Asian-North/American communities, in addition to those from South Asia.
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ASIA 399 (3) Films of the South Asian Diaspora

Category: 1 Faculty: Arts Department: Asian Studies Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: September 25, 2018 Contact Person: Lyndsay Bocchinfuso and Sunera Thobani Phone: 2-9266 Email: lyndsay.bocchinfuso@ubc.ca
Proposed Calendar Entry: ASIA 399 (3) Films of the South Asian Diaspora Contemporary films of the South Asian Diaspora, with a focus on Canada, US, and UK. Emphasizes theories of representation, visual and cultural analysis.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=ASIA Present Calendar Entry: Type of Action: New course Rationale for Proposed Change: Neither Hollywood nor Bollywood, films made by diasporic South Asian filmmakers about the experiences of these communities began in earnest in the 1980/1990s, immediately attracting viewers within these communities and in South Asia, as well as crossing over into mainstream western audiences. This cinema has taken off since the 2000s with the phenomenal successes of diasporic SA women filmmakers - including Meera Nair, Gurindar Chadha and Deepa Mehta, among others - and has had a major impact on both Hollywood and Bollywood. This interdisciplinary course, Films of the South Asian Diaspora , studies the films' treatment of migration, race, gender, identity, citizenship, and religion in national and transnational contexts. Drawing on the fields of South Asian

	<p>Studies, Cultural Studies, Migration and Diaspora Studies, and Gender and Sexuality Studies, students will explore how, where and when representations of the South Asian diaspora unsettle ideas about 'home' and the 'world', about 'nation' and 'transnationalism', and about the fixity of 'identity' and 'belonging'.</p> <p>This course places special emphasis on studying how 'history' and 'collective memory' intersect in the filmic representation of SA diasporic experiences, and on delineating the dominant and alternate forms of masculinity, femininity, sexuality and gender/sexual normativity that are constructed in the film texts.</p> <p>This course will contribute to the range of courses on South Asia that are currently offered by the Department of Asian Studies, by filling in a curriculum gap on the construction of the South Asian diaspora and the various SA diasporas in their particular post-migration contexts. The films studied in this course focus on the SA diaspora in three key 'national' sites in the west, namely Canada, the US and the UK. Students will thus have the opportunity to concentrate on a country specific focus in their course assignments even as they are encouraged to adopt an overall comparative perspective on issues of nation, migration, representation, gender and race. This course complements ASIA 339 (The Construction of South Asian Communities in the Diaspora); ASIA 343 (Film in South Asia); and ASIA 333 (Contemporary South Asian Gender and Sexuality Studies).</p> <p>This course will be of interest to students in Sociology, Anthropology, Film Studies, History, English, GRSJ, Social Work and Asian-Canadian and Asian Migration Studies. Given the long history of South</p>
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	Asian migration into BC, and given the demographic changes underway across Canada and the US, this course will also attract students from diasporic Asian-Canadian communities as well as those from South Asia.
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ASIA 445 (3) Japanese Crime Fiction

Category: 1 Faculty: Arts Department: Asian Studies Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: September 26, 2018 Contact Person: Lyndsay Bocchinfuso and Christina Yi Phone: 2-9266 Email: lyndsay.bocchinfuso@ubc.ca
Proposed Calendar Entry: ASIA 445 (3) Japanese Crime Fiction Examines representations of crime and criminality in modern and contemporary Japanese literature. Prerequisites: Restricted to fourth-year students. Prior to registration, a minimum of 9 credits of 300-level ASIA coursework recommended.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=ASIA Present Calendar Entry: Type of Action: New course Rationale for Proposed Change: This advanced undergraduate research course will encourage students to analyze Japanese crime fiction from a cultural studies perspective, teaching them how to identify the ways that class, gender, and race intersect in the making of law and order. Literary depictions of crime cannot be understood apart from the cultural mores of the time; analyzing the narrative structure, style, content, and historical context of Japanese crime narratives will therefore not only help students become more sophisticated readers of literature in general but will also give them a more complex understanding of modern Japanese society and its changes over time. Finally, the course will highlight the inextricable relationship between modern Japan and the Western world, particularly the profound influence that Edgar Allan Poe, Fyodor Dostoevsky, and Sigmund Freud had on Japanese writers of all genres.

	<p>A course on Japanese crime fiction offers unique opportunities for introducing a variety of research methods and resources to students. Throughout the semester, students will learn how to conduct primary source research using newspaper databases (online and in print), government reports and censuses, journal archives, and social media networks, with the ultimate aim of considering how the rhetoric of crime is developed across different media forms.</p> <p>The Department of Asian Studies currently offers only one research-intensive seminar on Japanese literature, and its focus is on premodern (pre-1868) Japan. The proposed seminar would increase the options for our Japanese Language and Literature majors as well as our Asian Area Studies majors who need a research-intensive course for the degree, and it would add to our small but growing list of courses that critically examine popular culture. Because Japanese crime fiction, as a genre, has been in a constant conversation with “canonical” literature since its inception, a Japanese crime fiction class will help bridge the gap between so-called high and low cultures for students and, indeed, teach them how such divisions came to operate in the first place.</p>
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ASIA 474 (3) From the Chronicle to the Archive: Cultures of History in South Asia

Category: 1 Faculty: Arts Department: Asian Studies Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: September 26, 2018 Contact Person: Lyndsay Bocchinfuso and Hasan Siddiqui Phone: 2-9266 Email: lyndsay.bocchinfuso@ubc.ca
Proposed Calendar Entry: ASIA 474 (3) From the Chronicle to the Archive: Cultures of History in South Asia	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=ASIA Present Calendar Entry: Type of Action: New course

<p>Examines how South Asian pasts have been memorialized in writing, from medieval chronicles to the development of history as a modern academic discipline in the nineteenth century. Credit cannot be granted for both ASIA 474 and ASIA 574.</p>	<p>Rationale for Proposed Change:</p> <p>This course will be run alongside a graduate iteration, ASIA 574, with higher expectations for the learning outcomes and assessed components. A separate Category 1 proposal for ASIA 574 has been submitted.</p> <p>This 400-level course introduces students to the ways that the past has been memorialized in South Asia over the past millennium, a topic that has long inspired major scholarship and public debate. The course will focus in particular on Perso-Arabic historical writing. In completing this course students will learn: why scholarship on the "history of history" has been so contentious; the substantive issues at play in discussions of medieval chronicles and historical poetry; and the issues posed by the new regimes of writing about the past that emerged under colonialism. This course will provide students with sophisticated analytical tools for thinking about how the past is mobilized at given moments in time and how contingent and historically specific ways of writing about the past are made to seem transparent and natural.</p> <p>As this is a developing field of study, "From the Chronicle to the Archive" can be taught and updated regularly by different faculty. Indeed, a course like this was taught as a Special Topic for advanced undergraduates some years ago and the students who took it benefited considerably. Aside from Asia 428, "Mughal India," there is furthermore no course that offers advanced study of the Perso-Arabic literary culture of South Asia, which is a major area of focus in "From the Chronicle to the Archive." This course can be fruitfully paired with courses like Asia</p>
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	374, which examines the historical imagination of the region of Punjab, courses on folklore like Asia 369, which in part examine popular imaginations of the past, and advanced methods courses like Asia 576 which introduce graduate students to the range of critical issues in South Asian studies. This course will also appeal to students in the Department of History with interests in South Asia, Islam, and historiography.
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GREK: Department of Classical, Near Eastern, and Religious Studies

GREK 403 (3-6) d Studies in Greek Prose and Verse

Category: 1 Faculty: Arts Department: CNERS Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: September 20, 2018 Contact Person: Matthew McCarty Phone: 822-5613 Email: matthew.mccarty@ubc.ca
Proposed Calendar Entry: GREK 403 (3-6) d Studies in Ancient Greek Prose and Verse Thematic studies using both Greek prose and Greek verse. May be repeated for up to 6 credits. It is recommended that the corequisite course be completed prior to GREK 403. <i>This course is not eligible for Credit/D/Fail grading.</i> <i>Corequisite:</i> One of GREK 301, GREK 350, GREK 351.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?code=GREK Present Calendar Entry: Type of Action: Create new course Rationale for Proposed Change: Our current 400-level language courses are limited to either prose or verse, preventing thematic studies that cross genres. Creating a new mixed-genre course will allow students to hone their abilities to work across genres and sharpen their linguistic and interpretive skills in an upper-level research course. This class will be run simultaneously with a graduate iteration (GREK 503) which will follow as a separate Category 1 proposal. X Not available for Cr/D/F grading

	<p>(undergraduate courses only) (Check the box if the course is NOT eligible for Cr/D/F grading and provide the rationale for this below. Note: Not applicable to graduate-level courses.)</p> <p>Rationale for not being available for Cr/D/F: This is a 400-level course that aims to develop research, translation, and interpretation skills as a capstone to a CNERS degree. As with other capstone courses in our department, we feel it would be inappropriate not to offer a substantive evaluation of a student's work.</p>
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HIST: Department of History*HIST 100 (3) What Is History?*

<p>Category: 1 Faculty: Arts Department: History Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019-2020</p>	<p>Date: October 10, 2018 Contact Person: Eagle Glassheim and Bradley Miller Phone: (604) 827-3560 Email: eagle.g@ubc.ca and brmiller@mail.ubc.ca</p>
<p>Proposed Calendar Entry: HIST 100 (3) What Is History?</p> <p>The discipline of history through the study of questions, sources, methods, and controversies. Includes case studies of key turning points in world history to examine what historians do and why it matters.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?code=HIST</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: In spite of considerable student interest, the Department of History does not have a basic introduction to the discipline of history. This course draws on the example of an incredibly popular University of Michigan course of the same name. As at Michigan, we expect this course to appeal to students across the university. History is in fact a vital component of public and</p>

	academic discourse across disciplines, and all students would benefit from an introduction to historical thinking, methods, and writing. This course would also be excellent preparation for future courses in History, though we don't anticipate making it a prerequisite for the major. As a 100-level course, though, it would count towards the 12 credits of lower level courses required of our majors.
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LATN: Department of Classical, Near Eastern, and Religious Studies

LATN 403 (3-6) d Studies in Latin Prose and Verse

Category: 1 Faculty: Arts Department: CNERs Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: September 20, 2018 Contact Person: Matthew McCarty and Siobhán McElduff Phone: 822-5613 Email: matthew.mccarty@ubc.ca
Proposed Calendar Entry: LATN 403 (3-6) d Studies in Latin Prose and Verse Thematic studies using both Latin prose and Latin verse. May be repeated for up to 6 credits. <i>This course is not eligible for Credit/D/Fail grading.</i> <i>Corequisite:</i> One of LATN 301, LATN 350, LATN 351. It is recommended that the corequisite course be completed prior to LATN 403.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?code=LATN Present Calendar Entry: N/A Type of Action: Create new course Rationale for Proposed Change: Our current 400-level language courses are limited to either prose or verse, preventing thematic studies that cross genres. Creating a new mixed-genre course will allow students to hone their abilities to work across genres and sharpen their linguistic and interpretive skills in an upper-level research course. This will be run alongside a graduate iteration of the course, LATN 503, with higher expectations for the learning outcomes and assessed components. LATN 503 will follow as a separate Category 1 proposal.
	X Not available for Cr/D/F grading

	<p>(undergraduate courses only) (Check the box if the course is NOT eligible for Cr/D/F grading and provide the rationale for this below. Note: Not applicable to graduate-level courses.)</p> <p>Rationale for not being available for Cr/D/F: This is a 400-level course that aims to develop research, translation, and interpretation skills as a capstone to a CNERS degree. Translation skills alone are not enough; students are supposed to delve into the deeper meaning behind words and justify their lexical choices. (Latin is a language with a remarkably small vocabulary, and translation of texts at this level requires one to work with a range of hugely flexible in terms of meaning lexical items.) The commentary assignment also requires significant independent and group research.</p>
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RUSS: Department of Central, Eastern, and Northern European Studies

RUSS 301 (3) Third-Year Russian I

<p>Category: 1 Faculty: Arts Department: CENES Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019/2020</p>	<p>Date: August 21, 2018 Contact Person: Veta Chitnev and Ilinca Iurascu Phone: 604-827-5541 Email: : ychitnev@mail.ubc.ca CC: Arts.Curriculum@ubc.ca</p>
<p>Proposed Calendar Entry: RUSS 301 (3) Third-Year Russian I Advanced intermediate oral practice, syntax and composition. Credit will be granted for only one of RUSS 301 or RUSS 300. <i>Prerequisite:</i> One of RUSS 200, RUSS 202.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?code=RUSS</p> <p>Present Calendar Entry: New Course</p> <p>Type of Action: This course, along with RUSS 302, is being created to replace an existing course, RUSS 300 (6). Together with RUSS 302, RUSS 301 will cover the same learned outcomes of RUSS 300 (6).</p>

	Rationale for Proposed Change: Provide students with more flexibility by meeting their scheduling needs.
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RUSS 302 (3) Third-Year Russian II

Category: 1 Faculty: Arts Department: CENES Faculty Approval Date: January 10, 2019 Effective Session (W or S): W Effective Academic Year: 2019/2020	Date: August 25, 2018 Contact Person: Veta Chitnev Phone: 604-827-5541 Email: : vchitnev@mail.ubc.ca CC: Arts.Curriculum@ubc.ca
Proposed Calendar Entry: RUSS 302 (3) Third -Year Russian II Advanced intermediate oral practice, syntax and composition. Credit will be granted for only one of RUSS 302 or RUSS 300 <i>Prerequisite:</i> RUSS 301.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?code=RUSS Present Calendar Entry: New Course Type of Action: This course, along with RUSS 301, is being created to replace an existing course, RUSS 300 (6). Together with RUSS 301, RUSS 302 will cover the same learned outcomes of RUSS 300 (6). Rationale for Proposed Change: Provide students with more flexibility by meeting their scheduling needs.

UBC Curriculum Proposal Form Change to Course or Program

Category: 1

Faculty: Commerce Faculty Approval Date: Dec 4, 2018 Effective Session (W or S): S Effective Academic Year: 2019	Date: May 15, 2018 Contact Person: Kin Lo Phone: 2-8430 Email: kin.lo@sauder.ubc.ca
Proposed Calendar Entry: <i>Bachelor of Commerce</i> Contents Introduction Academic Advising Admission for Students Entering the Program in 2017 Academic Regulations Co-operative Education Minors and Concentrations [create link to new page] Degree Requirements Commerce Scholars Program Accounting Business and Computer Science – Combined Major Business Technology Management Entrepreneurship Finance ...	URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12.199.295.0 Present Calendar Entry: <i>Bachelor of Commerce</i> Contents Introduction Academic Advising Admission for Students Entering the Program in 2017 Academic Regulations Co-op and Minor Options Degree Requirements Commerce Scholars Program Accounting Business and Computer Science – Combined Major Business Technology Management Entrepreneurship Finance ... Type of Action: Change Rationale for Proposed Change: We are adding a concentration in sustainability and putting it a section with minors as both are specializations that can be taken in addition to a student's primary option. We are separating out co-op education into its own subsection as that seems consistent with practice in other large faculties.

<p>Proposed Calendar Entry:</p> <p>Co-operative Education</p> <p>The Commerce Co-operative Education Program is intended to provide interested and qualified students in the Faculty with paid work experience relevant to their future careers. The Co-operative Education program is an optional, year-round program, supplementary to academic programs in the Faculty. A minimum of three work terms must be completed including at least one term in either Term 1 or Term 2 of the Winter Session. Students must end their degree on an academic term.</p> <p>Students wishing to enrol in the program must apply in either March of second year or September of third year. Academic performance and workplace suitability (as judged by the Business Co-operative Education Office) will be the selection criteria used for program admission. Total enrolment is subject to the availability of appropriate work placements. Acceptance into the program does not guarantee work placements. Students admitted to the program must register in the appropriate co-operative education course for each work term, once a suitable work experience is confirmed. Payment of the Co-operative Education program fees is mandatory. This includes a Co-operative Education Program Fee for each work term and a one-time Co-operative Education Program Workshop Fee. See Program and Course Fees.</p> <p>Faculty advisors or co-operative coordinators visit students at their places of work and provide advice on the work term</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,199,295,680</p> <p>Present Calendar Entry:</p> <p>Co-op and Minor Options</p> <p>Co-operative Education Program</p> <p>The Commerce Co-operative Education Program is intended to provide interested and qualified students in the Faculty with paid work experience relevant to their future careers. The Co-operative Education program is an optional, year-round program, supplementary to academic programs in the Faculty. A minimum of three work terms must be completed including at least one term in either Term 1 or Term 2 of the Winter Session. Students must end their degree on an academic term.</p> <p>Students wishing to enrol in the program must apply in either March of second year or September of third year. Academic performance and workplace suitability (as judged by the Business Co-operative Education Office) will be the selection criteria used for program admission. Total enrolment is subject to the availability of appropriate work placements. Acceptance into the program does not guarantee work placements. Students admitted to the program must register in the appropriate co-operative education course for each work term, once a suitable work experience is confirmed. Payment of the Co-operative Education program fees is mandatory. This includes a Co-operative Education Program Fee for each work term and a one-time Co-operative Education Program Workshop Fee. See Program and Course Fees.</p> <p>Faculty advisors or co-operative coordinators visit students at their places of work and provide advice on the work term</p>
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<p>reports that are a requirement of the program.</p> <p>Each successfully completed co-operative education course is assigned 3 co-op credits on a student's academic transcript (i.e. COMM 380, 381, 480 and 481). In order to graduate in a co-operative education program, a student must complete a minimum of 9 co-op credits in addition to the normal academic requirements to complete a Bachelor of Commerce degree (normally 121 academic credits). Participation in the Co-operative Education Program in Commerce necessitates an additional one or two terms to complete the Bachelor of Commerce degree.</p> <p>Students transferring to UBC from an accredited co-operative programs at other institutions may request admission to the Commerce Co-operative Education Program and, if accepted, may receive co-op credit for one previously completed work term.</p> <p>For more information, contact the Sauder Co-op Program.</p>	<p>reports that are a requirement of the program.</p> <p>Each successfully completed co-operative education course is assigned 3 co-op credits on a student's academic transcript (i.e. COMM 380, 381, 480 and 481). In order to graduate in a co-operative education program, a student must complete a minimum of 9 co-op credits in addition to the normal academic requirements to complete a Bachelor of Commerce degree (normally 121 academic credits). Participation in the Co-operative Education Program in Commerce necessitates an additional one or two terms to complete the Bachelor of Commerce degree.</p> <p>Students transferring to UBC from an accredited co-operative programs at other institutions may request admission to the Commerce Co-operative Education Program and, if accepted, may receive co-op credit for one previously completed work term.</p> <p>For more information, contact the Sauder Co-op Program.</p> <p>Minor in Arts</p> <p>Students may apply to have the completion of the requirements for a minor in the Faculty of Arts noted on their transcript. Students are encouraged to consult a departmental advisor in Arts, and an advisor in the Undergraduate Office in the Sauder School of Business, preferably before taking the necessary courses.</p> <p>Minor in Science</p> <p>Students may, with approval of a departmental advisor in Science, a senior faculty advisor in the Faculty of Science Dean's Office, and an advisor in the Undergraduate Office in the Sauder School of Business, undertake a minor in Science</p>
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	<p>program in conjunction with their degree program. Students are strongly encouraged to consult with advisors in both faculties before taking the necessary courses. Space in science courses is limited. Admission to a science minor does not guarantee access to courses agreed upon for the minor. Once students complete the required courses, they will have the minor recognized on their transcript.</p>
<p>New URL: Homepage>>Faculties, Colleges, and Schools>>The Faculty of Commerce and Business Administration>>Bachelor of Commerce>>Minors and Concentrations</p> <p>Proposed Calendar Entry:</p> <p>Minors and Concentrations</p> <p>Minor in Arts</p> <p>Students may apply to have the completion of the requirements for a minor in the Faculty of Arts noted on their transcript. Students are encouraged to consult a departmental advisor in Arts, and an advisor in the Undergraduate Office in the Sauder School of Business, preferably before taking the necessary courses.</p> <p>Minor in Science</p> <p>Students may, with approval of a departmental advisor in Science, a senior faculty advisor in the Faculty of Science Dean's Office, and an advisor in the Undergraduate Office in the Sauder School of Business, undertake a minor in Science program in conjunction with their degree program. Students are strongly encouraged to consult with advisors in both faculties before taking the necessary courses. Space in science courses is limited. Admission to a science minor does not guarantee access to courses agreed upon for the minor. Once students complete the required courses, they will have the minor recognized on</p>	<p>URL: None; Below content is from http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,199,295,680</p> <p>Present Calendar Entry:</p> <p>Co-op and Minor Options</p> <p>Co-operative Education Program</p> <p>The <u>Commerce Co-operative Education Program</u> is intended to provide interested and qualified students in the Faculty with paid work experience relevant to their future careers. The Co-operative Education program is an optional, year-round program, supplementary to academic programs in the Faculty. A minimum of three work terms must be completed including at least one term in either Term 1 or Term 2 of the Winter Session. Students must end their degree on an academic term.</p> <p>Students wishing to enrol in the program must apply in either March of second year or September of third year. Academic performance and workplace suitability (as judged by the Business Co-operative Education Office) will be the selection criteria used for program admission. Total enrolment is subject to the availability of appropriate work placements. Acceptance into the program does not guarantee work placements. Students admitted to the program must register in the appropriate co-operative education course for each work term, once a suitable work experience</p>

their transcript.

Sustainability and Social Impact

The Sustainability and Social Impact concentration is designed to expose students to the environmental, economic, and social sustainability challenges and opportunities faced by today's business leaders.

Course requirements

12 credits of sustainability and social impact studies from a variety of both commerce and non-commerce courses.¹ The 12 credits also count towards fulfillment of elective requirements. If courses completed for the Sustainability and Social Impact concentration overlap with required courses in a student's chosen option, only one 3-credit course can be counted toward fulfilling both the option and concentration requirement.

¹See [BCom Website](#) for list of Sustainability courses available to fulfill this requirement.

~~is confirmed. Payment of the Co-operative Education program fees is mandatory. This includes a Co-operative Education Program Fee for each work term and a one-time Co-operative Education Program Workshop Fee. See [Program and Course Fees](#).~~

~~Faculty advisors or co-operative coordinators visit students at their places of work and provide advice on the work term reports that are a requirement of the program.~~

~~Each successfully completed co-operative education course is assigned 3 co-op credits on a student's academic transcript (i.e. COMM 380, 381, 480 and 481). In order to graduate in a co-operative education program, a student must complete a minimum of 9 co-op credits in addition to the normal academic requirements to complete a Bachelor of Commerce degree (normally 121 academic credits). Participation in the Co-operative Education Program in Commerce necessitates an additional one or two terms to complete the Bachelor of Commerce degree.~~

~~Students transferring to UBC from an accredited co-operative programs at other institutions may request admission to the Commerce Co-operative Education Program and, if accepted, may receive co-op credit for one previously completed work term.~~

~~For more information, contact the Sauder Co-op Program.~~

Minor in Arts

Students may apply to have the completion of the requirements for a minor in the Faculty of Arts noted on their transcript. Students are encouraged to consult a departmental advisor in Arts, and an advisor in the Undergraduate Office in the Sauder School of Business, preferably

	<p>before taking the necessary courses.</p> <p>Minor in Science</p> <p>Students may, with approval of a departmental advisor in Science, a senior faculty advisor in the Faculty of Science Dean's Office, and an advisor in the Undergraduate Office in the Sauder School of Business, undertake a minor in Science program in conjunction with their degree program. Students are strongly encouraged to consult with advisors in both faculties before taking the necessary courses. Space in science courses is limited. Admission to a science minor does not guarantee access to courses agreed upon for the minor. Once students complete the required courses, they will have the minor recognized on their transcript.</p>
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UBC Curriculum Proposal Form Change to Course or Program

Category: 1

Faculty: LAW Department: n/a Faculty Approval Date: 17 January 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: January 29, 2019 Contact Person: David G. Duff Phone: 604-827-3586 Email: duff@allard.ubc.ca
Proposed Calendar Entry: LAW 550 (3) Taxation of Corporate Reorganizations Survey of statutory and judicial rules governing the taxation of corporate reorganizations. Credit will be granted for only one of LAW 414 or LAW 550. <i>This course is not eligible for Credit/D/Fail grading.</i> <i>Prerequisite:</i> One of LAW 408, LAW 562.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=LAW Present Calendar Entry: N/A Type of Action: Create new course. Rationale for Proposed Change: Some of this material has been taught in LAW 408/LAW 562 Taxation of Corporations and Shareholders, but it is impossible to cover it thoroughly while also covering material on the taxation of corporations and shareholders, especially as legislative amendments and judicial developments have increased the volume of material. By creating a separate 3-credit course on the taxation of corporate reorganizations, it will be possible to cover more material in both courses at a more reasonable pace, allowing for practical exercises and improving the learning experience. Since the content of LAW 550 builds on concepts addressed in LAW 562 and LAW 408 (the corresponding JD course), these are listed as prerequisites.



**UBC Curriculum Proposal Form
Change to Course or Program**

Category: 1

Faculty: Law Department: n/a Faculty Approval Date: 7 February 2019 Effective Session (W or S): W Effective Academic Year: 2019	Date: January 28 2019 Contact Person: Kerstin Walter Phone: +1-604-822-0308 Email: walter@allard.ubc.ca
<p>Proposed Calendar Entry:</p> <p>LAW 588 (3) Ethics and Professionalism</p> <p>The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice.</p> <p>Credit will be granted for only one of LAW 588 or LAW 468.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?code=LAW </p> <p>Present Calendar Entry: N/A </p> <p>Type of Action: Create new course and add cross-listing </p> <p>Rationale for Proposed Change: We are permanently cross listing this course for graduate LLM CL students. The course already runs at the JD level and is open to graduate students. We permanently cross listed 29 JD courses through this process in April 2018. Our JD courses are professional courses and our Graduate student enrolled at the 500 level will complete additional course work to reflect the fact that they take it as LLMCL student, see syllabus. We are now cross listing this additional course to cover gaps left after the first round of cross listing last year. </p>



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: LAW Department: Faculty Approval Date: 17 January 2019 Effective Session (W or S): W Effective Academic Year: 2019</p>	<p>Date: January 29, 2019 Contact Person: David G. Duff Phone: 604-827-3586 Email: duff@allard.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>LAW 414 (3) Taxation of Corporate Reorganizations</p> <p>Survey of statutory provisions and judicial decisions governing the taxation of corporate reorganizations. Credit will be granted for only one of LAW 414 or LAW 550. <i>This course is not eligible for Credit/D/Fail grading.</i> <i>Prerequisite:</i> One of LAW 408, LAW 562.</p>	<p>URL:</p> <p>http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=LAW</p> <p>Present Calendar Entry:</p> <p>N/A</p> <p>Type of Action:</p> <p>New course.</p> <p>Rationale for Proposed Change:</p> <p>Some of this material has been taught in Law 408 Taxation of Corporations and Shareholders, but it is impossible to cover it thoroughly while also covering material on the taxation of corporations and shareholders, especially as legislative amendments and judicial developments have increased the volume of material. By creating a separate 3-credit course on the taxation of corporate reorganizations, it will be possible to cover more material in both courses at a more reasonable pace, allowing for practical exercises and improving the learning experience.</p> <p>Since the content of Law 414 builds on concepts addressed in Law 408 and Law 562 (the corresponding LLM Tax course), these are listed as prerequisites.</p>

UBC Curriculum Proposal Form Change to Course or Program

Category: 1

<p>Faculty: Faculty of Law Department: Faculty of Law Faculty Approval Date: Jan., 28, 2018 Effective Session (W or S): W Effective Academic Year: 2018/19</p>	<p>Date: July 31, 2018 (agreement terminated) Contact Person: Elaine Lenki Borthwick Phone: 604-822-3848 Email: borthwick@allard.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>International Degree Partnership Programs</p> <ul style="list-style-type: none"> • UBC-Melbourne Law School J.D./LL.M. Degree Partnership • UBC-Tsinghua University School of Law LL.B./J.D. Degree Partnership • Joint Legal Education Agreement with the University of Hawai'i *this agreement is currently under review • Joint Legal Education Agreement with the University of Hong Kong <p>[...]</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12.207.358.1560</p> <p>Present Calendar Entry:</p> <p>International Degree Partnership Programs</p> <ul style="list-style-type: none"> • UBC-Melbourne Law School J.D./LL.M. Degree Partnership • UBC-Tsinghua University School of Law LL.B./J.D. Degree Partnership • Joint Legal Education Agreement with the University of Hawai'i *this agreement is currently under review • Joint Legal Education Agreement with the University of Hong Kong <p>[...]</p> <p>Joint Legal Education Agreement with the University of Hawai'i The Joint Legal Education Agreement with the University of Hawai'i (UH) and the University of British Columbia (UBC) allows eligible students to complete Juris Doctor (J.D.) degrees at both institutions in four years of full-time study.</p> <p>Students enrolled in the J.D. program at UBC have the opportunity to complete the final year of their J.D. studies through the J.D. program at UH, where they will complete two years of full-time study. Likewise, eligible students enrolled in the J.D. program at UH may complete the final year of their J.D. studies through the J.D. program at UBC, enrolling in two years of full-time study. *Please note this agreement is currently under review</p> <p>Eligibility and Admission To be eligible, UBC J.D. students must have successfully completed the first year curriculum of the J.D. program at UBC and 30 additional UBC credits of upper-level courses, including all required courses for the J.D. degree</p>

	<p>UH J.D. students must have successfully completed at UH at least four terms of full-time study with at least 60 credits, including the "First-Year Curriculum," Constitutional Law I, Professional Responsibility, Second Year Seminar and 2 credits of skills or clinic courses.</p> <p>Interested UBC J.D. students eligible to participate must apply to the UH J.D. program by January 30 of their second year of study, for entry into the UH J.D. program in their third year of study.</p> <p>Interested UH J.D. students eligible to participate must apply to the UBC J.D. program by January 30 of their second year of study, for entry into the UBC J.D. program in their third year of study.</p> <p>Applicants to either law school must take the Law School Admission Test (LSAT) and have their scores reported, prior to January 30 of their second year of study, to the law school to which they are applying. An LSAT score that was used for original admission to their the UBC or the UH J.D. program will be accepted by UH or UBC for application through the Joint Legal Education Agreement to their respective J.D. programs.</p> <p>Applicants will be selected according to their academic and personal qualifications through the standard application process at each institution. Each law school has sole discretion to determine admissibility into its academic program.</p> <p>Academic Requirements If successfully admitted to the UH J.D. program, UBC J.D. students will complete a further two years of full-time study at UH, including all mandatory curriculum and degree requirements for the UH J.D. UBC will accept the equivalent of one (full-time) year of academic credit earned by UBC J.D. students completing their degree program at UH through the Joint Legal Education Agreement.</p> <p>If successfully admitted to the UBC J.D. program, UH J.D. students will complete at UBC all required courses and credits for the UH J.D. program not already fulfilled at UH, as well as all courses and credits necessary for fulfillment of the UBC J.D. degree requirements. UH will accept the equivalent of one (full-time) year of academic credit earned by UH J.D. students completing their degree program at UBC through the Joint Legal Education Agreement.</p> <p>Registration Students will be governed by the applicable academic rules, codes of conduct, and the like which are in effect at the institution at which they are studying at any given time.</p> <p>UBC J.D. students enrolled in the UH J.D. program under the Joint Legal Education Agreement will pay tuition and fees to UH. UH J.D. students enrolled in the UBC J.D. program under the Joint Legal Education Agreement will pay tuition and fees to UBC. Students will be liable for</p>
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	<p>the tuition and fees determined by the law school in which they are enrolled in accordance with the residency and citizenship.</p> <p>Graduation Students must fulfill the graduation requirements of each degree granting institution. The fulfillment of these requirements will be determined on a case by case basis for each student applying for degree conferral by the respective degree granting institution; UBC and UH.</p> <p>Type of Action: Remove the entire calendar entry.</p> <p>Rationale for Proposed Change: The partnership between the University of Hawai'i and the University of British Columbia was not renewed, thus the Joint Legal Education Agreement between the two no longer exists. This agreement was terminated on July 31, 2018.</p>
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THE UNIVERSITY OF BRITISH COLUMBIA

UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: Medicine Department: Undergraduate Medical Education Faculty Approval Date: Feb 11, 2019 Effective Session (W or S): S Effective Academic Year: 2019</p>	<p>Date: 28 January 2019 Contact Person: Cheryl Holmes/Janette McMillan Phone: (250) 212-9450 Email: Cheryl.Holmes@ubc.ca Janette.McMillan@ubc.ca</p>
<p>Proposed Calendar Entry: MEDD 499 (4-8) d Clinical Electives</p> <p>Summer clinical experience for UBC medical graduates who did not attain a residency position.</p> <p>Prerequisites:</p> <p>Students must have a UBC MD degree and have fully completed applications to residency positions for the first iteration of the postgraduate match in their Year 4 (submission of a Rank Order List to the Canadian Residency Matching Service, CaRMS).</p>	<p>URL:</p> <p>Present Calendar Entry: None</p> <p>Type of Action: New Course</p> <p>Rationale for Proposed Change: Every year, the number of medical students not matching to residency positions before graduation has been increasing. At UBC this number is projected to be 10 students per year, if the current situation continues.</p> <p>At this time UBC medical graduates who are unmatched to a residency position are not eligible to be educational registrants with the College of Physicians and Surgeons of BC (CPSBC) and are not covered by the UBC liability insurance.</p> <p>The goal of this new FoM course, "MEDD 499 Clinical Electives" is to provide unmatched UBC MD graduates with the opportunity to engage in clinical activities in an effort to develop skills, and to gain experience and knowledge in specific areas and disciplines to make their residency application for the next year more competitive.</p> <p>X <input checked="" type="checkbox"/> Pass/Fail or <input type="checkbox"/> Honours/Pass/Fail grading (Check one of the above boxes if the course will be graded on a P/F or H/P/F basis. Default grading is percentage.)</p>

DEAN'S OFFICE**Category: (1)**

Faculty: Science Department: Dean's Office Faculty Approval Date: November 6, 2018	Date: November 6, 2018 Contact Person: Warren Williams Phone: 604-822-8729 Email: wwarren@mail.ubc.ca
Effective Date for Change: 2019S Proposed Calendar Entry: ... Minor in Land and Food Systems The Faculty of Land and Food Systems offers six optional minors for B.Sc. students. Upon completion of one of the following five minor options, the notation "Minor in [Subject]" will be denoted on the student's transcript. The Minor (3250): Applied Animal Biology consists of 18 credits selected from APBI 311(BIOL 364), 312, 314, 315, 316, 319, 327 (BIOL 327), 398, 410, 411, 413, 414, 415, 416, 418, 419, 427 (BIOL 411), 496. The Minor (XXXX): Sustainable Agriculture and Environment consists of 18 credits selected from APBI 318, 322, 324 (BIOL 324), 327 (BIOL 327), 328 (BIOL 317), 342 (FRST 310), 351 (BIOL 351/FRST 311), 401, 402, 403, 417, 426 (BIOL 421), 428, 440 (BIOL 440), 444 (FRST 444). The Minor (1347): Food and Resource Economics consists of ECON 310, 311 and 12 credits selected from FRE 302, 306, 326 , 340, 374, 385, 402, 420, 460, 490 for a total of 18 credits. Students who have completed ECON 101 and 102 prior to entry into the program may use these courses in lieu of ECON 310 and 311, but may require additional upper-level credits to satisfy graduation requirements. The Minor (3251): Food Science consists of 18 credits selected from FNH 300, 301, 302, 303, 309, 313, 330, 335, 402, 403, 405, 413, 419 , 430 . The Minor (1349): Nutritional Sciences consists of FNH 250, 350, 351, and 12 credits selected	http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,410 Present Calendar Entry: ... Minor in Land and Food Systems The Faculty of Land and Food Systems offers six optional minors for B.Sc. students. Upon completion of one of the following five minor options, the notation "Minor in [Subject]" will be denoted on the student's transcript. The Applied Animal Biology Minor will consist of 18 credits selected from APBI 311, 312, 314, 315, 316, 319, 327 (BIOL 327), 398, 410, 411, 413, 414, 415, 416, 418, 419, 427 (BIOL 411), 496. The Applied Plant and Soil Sciences Minor will consist of 18 credits selected from APBI 318, 322, 324 (BIOL 324), 327 (BIOL 327), 328 (BIOL 317), 342 (FRST 310), 351 (BIOL 351/FRST 311), 401, 402, 403, 417, 426 (BIOL 421), 428, 440 (BIOL 440), 444 (FRST 444). The Food and Resource Economics Minor will consist of ECON 310, 311 and 12 credits selected from FRE 302, 306, 340, 374, 385, 402, 420, 460, 490 for a total of 18 credits. Students who have completed ECON 101 and 102 prior to entry into the program may use these courses in lieu of ECON 310 and 311, but may require additional upper-level credits to satisfy graduation requirements. The Food Science Minor will consist of 18 credits selected from FNH 300, 301, 302, 303, 309, 313, 330, 335, 401 , 402, 403, 405, 413, 415 . The Nutritional Sciences Minor will consist of FNH 250, 350, 351, and 12 credits selected from

from FNH 301, 355, 370, **371**, 398, 402, 451, 454, 455, **472**, 473, 474, 477, 490 for a total of 21 credits.

The **Minor (XXXX)**: Sustainable Food Systems consists of LFS 250 and 350; 3 credits from APBI 314, 315, BIOL 343, EDCP 329, FNH 342, 355, 455, LFS 340, SOCI 342, 360, 423, GEOG 410; 3 credits from APBI 360, 402, 428, 444, ENVR 430, 440, FNH 309, GEOG 310, 318; 3 credits from APBI 361, 414, FNH 415, FRE 302, 306, 340, 374, 460, GEOG 311, SCIE 420; 3 credits from APBI 465, LFS 450, 496; 3 additional credits from any 300- or 400-level course listed above for a total of 24 credits.

Application forms may be obtained from the LFS Student Services office or from the Land and Food Systems website.

Completed applications must be returned no later than March 31st.

Space in many science and land and food systems courses is limited. Admission to a land and food systems minor does not guarantee access to courses agreed upon for the minor.

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FNH 301, 355, 370, 398, 402, 451, 454, 455, ~~471~~, 473, 474, 477, 490 for a total of 21 credits.

The Sustainable Food Systems ~~Minor will~~ consist of LFS 250 and 350; 3 credits from APBI 314, 315, BIOL 343, EDCP 329, FNH 342, 355, 455, LFS 340, SOCI 342, 360, 423, GEOG 410; 3 credits from APBI 360, 402, 428, 444, ENVR 430, 440, FNH 309, GEOG 310, 318; 3 credits from APBI 361, 414, FNH 415, FRE 302, 306, 340, 374, 460, GEOG 311, SCIE 420; 3 credits from APBI 465, LFS 450, 496; 3 additional credits from any 300- or 400-level course listed above for a total of 24 credits.

Application forms may be obtained from the LFS Student Services office or from the Land and Food Systems website.

Completed applications must be returned no later than March 31st.

Space in many science and land and food systems courses is limited. Admission to a land and food systems minor does not guarantee access to courses agreed upon for the minor.

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Action: Change title of Applied Plant and Soil Sciences Minor to Sustainable Agriculture Minor. Add new specialization code.

Add existing specialization codes to Minors. Add the applicable specialization code for Minor (XXXX): Sustainable Food Systems as we were unable to locate it.

Add BIOL 364 to list of courses acceptable to the Minor (3250): Applied Animal Biology as it is equivalent to APBI 311.

Add course FRE 326 to Food & Resource Economics Minor to update course list.

Add courses FNH 419 (a new course which is expected to be in the calendar at the same time as this revision) & 430 and remove courses FNH 401 and 415 from Food Science Minor to update

	<p>course list.</p> <p>Correct course number from FNH 471 to 371 (this course number has changed) and add course FNH 472 to Nutritional Sciences Minor to reflect changes and update course list.</p> <p>Rationale: These changes will make information re: Faculty of Science Minors in Land and Food Systems accurate in the UBC Calendar.</p> <p>A new specialization code is necessary for The Minor (XXXX) Sustainable Agriculture and Environment as there may be students still completing the specialization previously listed in the calendar as Minor (3244) Applied Plant and Soil Sciences.</p> <p>Adding specialization codes to Minors keeps the minors consistent with other specializations in the calendar.</p> <p>Land and Food Systems has changed the title of the Applied Plant and Soil Sciences Major to the Sustainable Agriculture Major. This change in the title of the minor is to reflect the change in the major title.</p> <p>FRE 326 is an appropriate course for the Food & Resource Economics minor and broadens the possible courses students may take to complete this minor.</p> <p>FNH 419 is a new course expected to be added to the calendar at the same time as this calendar revision. Both FNH 419 and 430 are appropriate courses for the Food Science Minor and broaden the possibilities for courses student may take. FNH 401 is no longer offered, and FNH 415 is not available to Science students.</p> <p>The former FNH 471 has been renumbered 371. FNH 472 is an appropriate course for this minor and has been added to broaden the possible courses students may take for the Nutritional Sciences Minor.</p> <p>Supporting Documents: SCI-18-1-LFS MINOR</p>
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6 March 2019

To: Vancouver Senate

From: Senate Nominating Committee

Re: Establishment of a Senate Research Committee (approval)

At its meeting on 12 December 2018 the Senate resolved as follows:

That the Senate direct the Nominating Committee to formulate Terms of Reference for the establishment of a standing committee on Research, and to present them to the Senate for ratification at or before its March 2019 meeting.

Further to that request, the Senate Nominating committee has reviewed the committee structure of all other U15 Senates (or equivalent bodies). As noted last year, UBC's Vancouver campus is an outlier in not having a standing committee for research (either as a sole mandate or an area of focus). In addition to the Okanagan campus's "Learning and Research Committee", all other U15 institutes have senate committees or sub-committees except for Ottawa and McGill, with a majority (10/15) having explicit research committees and a further 4 having research as explicit mandates for other committees (generally planning-focused). Several also tie their research committees to those with remits for graduate studies or education. A review of U15 research committees shows variety in both terms of reference and composition. Some terms are quite brief (e.g. Okanagan or Alberta) others more detailed (e.g., Queens, Waterloo, or Calgary). A list of the equivalent committees and links to their terms of references and compositions is included as appendix.

The Senate Nominating Committee has held several meetings to discuss this matter, and has met with the Vice-President Research and Innovation to consider her views. The Nominating Committee is of the opinion that a stand-alone research committee is necessary to give this new area of focus for Senate the necessary attention and emphasis. The Nominating Committee will however review that as part of the triennial review processes to ensure that all Senate committees have appropriate remits and the division of labour within Senate is reasonable.

In a review of U15 terms of reference, the following themes emerged:

- General oversight (13 universities)
- Research strategic planning (9)
- Research policies and procedures (9)
- Strategic direction/priorities (7)

Research centres/institutes/units (6)
Research Awards (5)
Advising the vice-president research or equivalent (4)
Ethics and ethics boards (4)
Research communication/coordination (3)
Research funding (3)
Intellectual property (3) Research Infrastructure (2)
Research contracts/external funding (3)
Reviews (2)
Risk management (1)

NB: Almost all of the committees have a broad introductory section giving them remit for research generally, and thus they may not delineate all activities they undertake.

A similar review of their membership shows that in all cases, the vice-president research (or equivalent) was a member of the research committee, and voting in all but 3 cases. At Calgary, Dalhousie, Manitoba, Queens, and Western Ontario, the vice-president research is chair of the research committee ex officio (At Alberta and McMaster it is the Provost, and at the remainder it is an elected position). The mean average committee size is 15 elected members and 9 ex-officio members, which is larger than the average Vancouver Senate committee size. Typically, elected members are apportioned to ensure representation from disciplines (either explicitly or through appointments), and often, student seats are set aside for graduate students. Common ex officio members are the chancellor, president, deans of graduate studies, other vice-presidents or associate vice-presidents.

The Nominating Committee also considered the typical organizing principles around standing committees of the Senate. These are:

- 1) Members of Senate should hold a majority of voting seats (NB: this has not been followed for the Admissions or curriculum committees)
- 2) A sound rationale is needed for an ex-officio member having a vote
- 3) The Chair should be elected from among those senators on the committee by the committee.
- 4) There is generally 1 student and 1 convocation senate member for every 4-5 other senate members (generally elected faculty members or deans) on the committee.
- 5) Deans are excluded from committees that review their own decisions or where a conflict of interest cannot easily be mitigated.
- 6) The membership of the committee is on the recommendation of the Nominating Committee.



In consideration of the above, the Nominating Committee considered the organization of UBC and its enabling legislation, the operation of Senate, and current and foreseeable future issues around governance of research at the University in developing its recommendations.

Recommendation

Based on its deliberations and a review of comparators, the Senate Nominating Committee is pleased to recommend as follows:

That, effective 1 July 2019, Senate establish a Senate Research Committee as a standing committee of Senate with the following composition, quorum, and terms of reference:

Proposed Senate Research Committee

Composition:

11 Senators, including 2 students (at least one of whom is preferably a graduate student) and 1 convocation member.

Chancellor (ex-officio) (voting)

President (ex-officio) (voting)

Registrar (ex-officio) (non-voting)

Vice-President Research & Innovation or an Associate Vice-President Research as designated by the Vice-President (ex-officio) (voting)

Quorum:

5

Terms of Reference:

- To consider, and to provide advice and recommendations to the Senate, on key academic matters related to research at the University, including but not limited to:
 - Institutional policies and procedures related to research;
 - Centres, institutes and other academic or administrative units with research-focused mandates; and
 - Research aspects of university-level strategic planning
 - The research environment, infrastructure, funding and other issues which, in the opinion of the Committee, have an impact on research at the University.



- To consider an annual report on research at the University from the Vice-President Research and Innovation prior to its presentation to Senate.
- To meet or consult with other Senate committees as required on matters of mutual interest.

Appendix: U15 Research Committees

Alberta

The Academic Planning Committee (APC) of the General Faculties Council (GFC)

<https://cloudfront.ualberta.ca/-/media/universitygovernance/documents/member-zone/gfc-standing-committees/academic-planning-committee-tor.pdf>

British Columbia (Okanagan)

Learning and Research Committee of the Senate

<https://senate.ubc.ca/okanagan/committees/learning-research-committee>

Calgary

Research and Scholarship Committee of the General Faculties Council

<https://www.ucalgary.ca/secretariat/files/secretariat/rsc-terms-of-reference-2015-02-24-final.pdf>

Dalhousie

Academic Programs and Research Committee of Senate

Research Sub-Committee

https://cdn.dal.ca/content/dam/dalhousie/pdf/dept/university_secretariat/Senate%20Docs%202016-17/Approved_ResearchSubCommitteeToR_December13,2017.pdf

Laval

Commission de la recherche de le conseil universitaire

https://oraweb.ulaval.ca/pls/cno/affiche_cno.proc_affiche?no=10

Manitoba

Senate Committee on University Research

http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/510.html

McGill

None

McMaster

University Planning Committee of the Senate

<https://secretariat.mcmaster.ca/senate/university-planning-committee/>

Montreal

Comité de la recherche de l'Assemblée universitaire

<https://secretariatgeneral.umontreal.ca/documents-officiels/vade-mecum/assemblee-universitaire/comites-de-lassemblee-universitaire/a-comites-permanents/comite-de-la-recherche/>



Ottawa
None

Queens at Kingston
Senate Advisory Research Committee
<https://www.queensu.ca/secretariat/senate/committees/advisory-research-committee>

Saskatchewan
Research, Scholarly and Artistic Work Committee of the University Council
<http://www.usask.ca/secretariat/governing-bodies/council/committee/RSAW/index.php>

Toronto
Committee on Academic Policy and Programs of the Academic Board of the Governing Council
http://www.governingcouncil.utoronto.ca/Governing_Council/bac/APP_1.htm

Waterloo
Senate Graduate and Research Council
<https://uwaterloo.ca/secretariat/committees-and-councils/senate-graduate-research-council>

Western Ontario
University Research Board of the Senate
<https://www.uwo.ca/univsec/pdf/senate/cttees/urb.pdf>



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OFFICE OF THE PROVOST AND VICE-PRESIDENT ACADEMIC

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March 8, 2019

To: UBC Vancouver Senate

From: Andrew Szeri, Provost and Vice-President Academic *ASS*

Re: QAPA Institutional Report - Draft

As you are aware, the Vancouver Campus of UBC is required by the Ministry of Advanced Education, Skills and Training to undergo a Quality Assurance Process Audit (QAPA) in 2018/19. QAPA periodic audit of internal program review policies and processes at public post-secondary institutions across the province have been implemented to ensure that rigorous institutional quality assessment processes are in place. More can be learned about QAPA at the [Ministry's website](#).

The QAPA process involves three main phases:

- (1) the preparation of a submission to the Ministry (submitted in July 2018)
- (2) a site visit by a panel of external reviewers (conducted in December 2018); and,
- (3) the preparation of an institutional response to the report of the external reviewers.

Attached you will find for information the Report prepared by the external reviewers as a result of the site visit. Based on this report, and conversations that occurred during the site visit itself, an Institutional Response has been prepared for your review and approval. Feedback on the attached draft has been sought through consultation with the Senate's Academic Policy, Curriculum and Teaching and Learning committees.

The QAPA Management Team is indebted to the Senators and Associate Deans who have assisted this process by serving on the QAPA Advisory Group and to all who participated in the preparation of the Institutional Report submitted last year and the site visit itself. It has been an illuminating experience, well-timed with the implementation of UBC's new strategic plan.

The Cover Letter and Institutional Response attached will become the public-facing document that is the outcome of the Vancouver Campus' participation in the QAPA process. Although its submission and publication will conclude our audit process in 2018/19, it sets out a number of responses to recommendations made by the external reviewers that have implications for the future work of Senate and its committees, including, but not limited to, ideas for improving the policy and procedures for external reviews of academic units. Therefore, we ask that you approve the following motion:

Motion: *That Senate approve the cover letter and Institutional Response to the 2018/2019 QAPA site visit report and its final submission to the Ministry of Advanced, Education, Skills and Training.*

QUALITY ASSURANCE PROCESS AUDIT

ASSESSORS' REPORT WORKBOOK

INSTITUTION NAME: University of British Columbia

SITE VISIT DATES: December 6-7, 2018

SUBMISSION DATE: December 18, 2018

General comments on Accuracy:

1. References to program review would align more fully to our policies and processes if indicated as Academic Unit Reviews. (noted in recommendations a and j, also noted on page 7 in 4.1, A(i), page 13 & 14 in 4.2 A and C.
2. Representatives from the Faculty of Arts appreciated the recognition of the work they have undertaken on program learning outcomes being implemented across the Faculty. However, they would like to note that although this initiative was supported from the Dean, through availability of the AD-Academic to all departments, the process for building the outcomes was definitely bottom-up in design and implementation and owned by each of the units. To characterize it as a top-down process is not entirely accurate.

DRAFT

OVERALL ASSESSMENT

The panel is requested to keep in mind the objectives and the guiding principles when undertaking the QAPA assessment.

Objectives

The main objectives of the quality assurance process audit (QAPA) are to ascertain that the institution:

- a) Continues to meet the program review policy requirements outlined in the DQAB's Exempt Status Criteria and Guidelines and the Degree Program Review Criteria and Guidelines, as applicable to the institution;
- b) Has and continues to meet appropriate program review processes and policies for all credential programs; and
- c) Applies its quality assurance process in relation to those requirements and responds to review findings appropriately.

Guiding Principles

- 1) Transparent and credible evidence of robust quality assurance criteria and processes are vital to BC public post-secondary institutions, the Degree Quality Assessment Board and the Ministry; demonstrate accountability; and contribute to the national and international reputation of the BC public post-secondary system.
- 2) Credible quality assurance should be rigorous and have peer evaluation as an essential feature.
- 3) QAPA standards will recognize the diversity and different mandates of BC public post-secondary institutions.
- 4) Primary responsibility and accountability for educational program quality assurance rests with post-secondary institutions themselves.
- 5) QAPA will be carried out so as to maximize the opportunity to:
 - a. affirm, and add value to, the internal quality assurance processes at each institution; and
 - b. share best practices from other BC institutions and elsewhere.
- 6) QAPA will promote a collaborative and supportive process that benefits BC public post-secondary system.

Summary:

The University of British Columbia (UBC) has a demonstrated record of strong commitment to quality assurance and quality enhancement over a long period of time. The new strategic plan, “Shaping UBC’s Next Century”, is aspirational and inspirational and will provide sound direction for the institution for many years to come. The audit team also appreciated the consistent linking of quality assurance and quality enhancement which demonstrates a commitment to continuous improvement. Another observation was the many undergraduate teaching and learning innovations that have been introduced at UBC and the Carl Weiman Science Education Program is a good example of the willingness of the institution to make significant changes to enhance student learning. It is also important to recognize that UBC is also an outstanding research university which has contributed to undergraduate and graduate program excellence.

Commendations

Provide clear statements that articulate areas where the institution has shown exemplary practice in the field of program quality assurance and improvement.

- a) UBC has made significant progress in implementing experiential learning across many programs which speaks to the commitment to engaged and competency-based learning.
- b) UBC has undertaken a variety of processes to support and implement program learning outcomes (PLO) and course learning outcomes (LO) across all programs. Some have been top-down (Arts) and others have been bottom-up with a more gradual approach and both appear to be effective in moving this agenda forward.
- c) The Centre for Teaching, Learning and Technology (CTLT) is an excellent support system for undergraduate and graduate programs. The scope and quality of services is highly appreciated. The embedding of CTLT staff in faculties has also been shown to be very effective.
- d) The process of identification and selection of external reviewers has worked very well with a strong record of credible academics providing peer review of units and programs.
- e) The Faculty of Arts uses learning analytics for pilot projects which enhance recommendations that are generated by the review process. This ensures continuous quality enhancement based on evidence.
- f) The concept of continuous improvement in annual planning appears to be embedded generally across the campus which is seen as very positive.

Affirmations

Provide clear statements in the areas where the institution has identified a weakness and has articulated how it intends to correct it. In effect, this is affirming the institution's judgment and findings in its Institution Report.

- a) UBC has embarked on the development and implementation of a new data system which is intended to provide much enhanced access to academic program information which will support quality assurance processes. This system will support the evidence-based approach to quality assurance and quality enhancement.
- b) UBC has committed to the review and renewal of the 1983 Senate Policy on Review of Administrative Units and the Principles, Procedures and Guidelines for External Academic Unit Reviews (2014) which will provide important updates to procedures for quality assurance and quality enhancement. Two specific areas that have been identified in this updating are enhancing the accountability processes to ensure that action plans are completed and reported and providing better coordination of reviews across the campus.
- c) The new program development process (HUB model) will provide a one-door, single-entry point for new program for review of new programs during implementation (phase V). It is also suggested that for all new programs that a formal program review take place after two cohorts have graduated to assess student outcomes and related evidence.

Recommendations

Provide clear statements in areas needing improvement. Recommendations may also be made in relation to areas of concern identified by the institution for which no plan of action has been articulated by the institution.

- a) The decentralized and flexible process of program reviews at UBC allows the University to account for individual disciplinary and professional orientations to take ownership of the process. Enhanced coordination of the quality assurance processes through tracking by the Deans' and Provost's Offices is recommended. It will be important that all faculties have a schedule of the timing of all reviews on a faculty level and these schedules should be rolled-up to the Provost's Office to provide an institutional map of the quality assurance processes that are anticipated over the next 3-5 years.
- b) It is also suggested that CTLT could play a role in this coordination process through the enhancement of their role in the further development of Program Learning Outcomes (PLOs) across campus and in ensuring that mapping of outcomes to the curriculum takes place.
- c) The university should develop a set of principles for quality assurance at UBC to guide the quality assurance process (e.g., focus on student learning outcomes and the centrality of peer review)

- d) Transparency of the nature of the process is defined in the current policy, however, consideration should be given in the new policy and procedures to enhanced transparency of the outcomes and dissemination of the self-study as well as the summary of outcomes of the external review process.
- e) In the revision of the Senate policy and the new guidelines, UBC, is encouraged to include a deeper embedding of Indigenous perspectives. In addition, consideration should be given to the inclusion of these perspectives in defining research excellence, for example, in tenure and promotion processes.
- f) A great deal of progress has been made at UBC on the development of PLOs and their assessment in undergraduate programs and this should now be emphasized within graduate programs as well.
- g) UBC should consider adding to the criteria for external reviewers a competency in understanding concepts of Learning Outcomes (LOs) and their assessment in competency-based education rather than only discipline expertise.
- h) Consideration should be given to incorporating an orientation for all peer reviewers focused on the Canadian, British Columbia, and institutional contexts, including relevant budget models.
- i) More direction should be provided in the preparation and vetting of self-studies to ensure self-reflection, better analysis of evidence and a future looking orientation. Self-studies should be shorter and more focused. A maximum of 30-40 pages plus appendices might be a reasonable guideline.
- j) The response to a program review should include an action plan which aligns with the Faculty Strategic Plan and the UBC Strategic Plan. The action plan should include specific actions, timelines and accountability for carrying out the actions as well including possible resource implications. This plan should be approved by the Dean and be presented for discussion to the appropriate Senate Committee.
- k) The maximum time between reviews should be no more than eight years with a target of five to seven years.
- l) The new Senate Policy and Guidelines for academic reviews should be subject to external review and feedback prior to moving to Senate approval.

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4.1. Overall Process

A. Does the process reflect the institution's mandate, mission, and values?	
CRITERIA:	COMMENTS / RECOMMENDATIONS:
(i) The institution should be able to demonstrate that it has an established institutional and program review planning cycle and process to assess the effectiveness of its educational programs and services, their responsiveness to student, labour market, and social needs.	<ul style="list-style-type: none"> UBC has a well-developed internal quality assurance process in place which includes a reference to previous reviews and the outcomes of those processes. All faculties are in process of developing PLOs and LOs and some have completed this process. All of the program reviews require a curriculum review as an element of the review. Each of the exemplars that were audited during this process referred to the University Strategic Plan and the Faculty Strategic Plan and how their programs related to the goals and direction in those plans. Stakeholders are very much a part of the review process and programs relate well to students, employment and communities.
(ii) The process should contribute to the continuous improvement of the institution.	<ul style="list-style-type: none"> UBC consistently refers to quality assurance and quality enhancement as a combined framework and the review processes emphasize continuous improvement. Each of the exemplar units demonstrated that each of the previous review recommendations had been accounted for and in many cases with very positive outcomes.

B. Is the scope of the process appropriate?	
CRITERIA:	COMMENTS / RECOMMENDATIONS:
(i) There should be evidence of a formal, institutionally approved policy and procedure for the periodic review of programs against published standards that includes the following characteristics: <ul style="list-style-type: none"> A self-study undertaken by faculty 	<ul style="list-style-type: none"> There is evidence of a formal institutionally approved policy as well as procedures for program QA at UBC. The UBC Senate Policy for the Review of Administrative Units approved in 1977 and amended in 1983 is the institutionally

<p>members and administrators of the program based on evidence relating to program performance, including strengths and weaknesses, desired improvements, and future directions. A self-study takes into account:</p> <ul style="list-style-type: none"> • the continuing appropriateness of the program's structure, admissions requirements, method of delivery and curriculum for the program's educational goals and standards; • the adequacy and effective use of resources (physical, technological, financial and human); • faculty performance including the quality of teaching and supervision and demonstrable currency in the field of specialization; • that the learning outcomes achieved by students/graduates meet the program's stated goals, the credential level standard, and where appropriate, the standards of any related regulatory, accrediting or professional association; • the continuing adequacy of the methods used for evaluating student progress and achievement to ensure that the program's stated goals have been achieved; • the graduate satisfaction level, student satisfaction level, and graduation rate; and • where appropriate, the graduate employment rates, employer satisfaction level, and advisory board satisfaction level. <p>➤ An assessment conducted by a panel that includes independent experts external to the institution. The assessment should normally include a site visit, a written report that assesses program quality and may recommend quality improvements; and an institution response to the report;</p> <p>➤ A summary of the conclusions of the evaluation that is made appropriately</p>	<p>approved policy for the formal external review of departments, institutes, schools, and faculties, as well as other units with academic impact. This policy outlines the general process for each review, allowing for variation in the implementation within Faculties.</p> <ul style="list-style-type: none"> • The university recognizes that this policy is dated and requires revision and is engaged in this process. Specific attention is to be given in the revisions to accountability in follow up of the review recommendations and timelines. • The Principles, Procedures and Guidelines for External Academic Reviews, 2013, developed by the Provost's Office (PPG-2013/14), complements the Senate Policy with clearer implementation expectations and guidelines for units in the review process. • The unit self-study is a corner stone of the preparation by the unit for the unit review. The policy and guidelines specify the components of the self-study, without requiring a single template across disciplines. • The guidelines for the development of the self-studies are comprehensive and appropriate especially given the diversity and breadth of program offerings at a large research institution, such as UBC. • The guidelines explicitly connect programs to the Student Learning Commitments of the University Strategic Plan and specify a critical evaluation of curriculum through the lens of both pedagogy and learning outcomes. • Data on multiple aspects of the performance of programs is required for the self-study from both institutional data and faculty and unit data sources, specifically for student satisfaction and graduation rates.
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<p>available.</p>	<ul style="list-style-type: none"> • The guidelines require units to report on progress in the engagement of Indigenous students in the unit. • The guidelines are not explicit in requiring employment rates, employer or advisory board comment. ➤ The Senate Policy and the Provost's Guidelines both identify the requirement of an external review and specify the composition of the review panel and the panel responsibilities including the site visit and written report. • The summary of the written report from the external review is made available after Senate acceptance.
<p>(ii) The institution can demonstrate that it has a policy and process for new program approval that includes peer / external review by appropriate experts.</p>	<ul style="list-style-type: none"> • UBC has a Senate approved Guide (Senate Curriculum Committee's Guide for Curriculum Submissions) and process for the development of new programs. This allows external reviews but does not mandate reviewers external to the university, although this is common practice. • New program development begins at the unit and Faculty level and then progresses through various stages of review before Senate and Board approval prior to Ministry approval. • The approval of new programs involves multiple checks and multiple units, typically taking up to two years of consideration. • UBC is currently designing a hub model for the development of new programs that will provide a single entry to this process to improve efficiency and effectiveness of this complex process.

C. Are the guidelines differentiated and adaptable to respond to the needs and contexts of different units, e.g. faculties or departments or credential level?

CRITERIA:	COMMENTS / RECOMMENDATIONS:
<p>(i) Are the guidelines adaptable to the range of programs and offerings within the institution?</p>	<ul style="list-style-type: none"> Each Faculty develops its own policy and procedure for QA/QE processes within the confines of the UBC Senate Policy on Reviews of Administrative Units and BOG Policy #22 and the Principles, Procedures and Guidelines for External Academic Reviews (PPG-2013/14) developed by the Provost. Each unit creates a Terms of Reference for the external review committee to follow. This allows for varied disciplinary approaches to quality assurance, however it also raises the possibility of inconsistency and/or lack of clarity regarding scope and focus for units undertaking reviews. For example, at the QAPA site visit Faculty of Medicine outlined their CQI approach and how they incorporate Accreditation and Academic Unit Review into their approach. The approach of Faculty of Arts was to link the Academic Unit Review to the Strategic Plan and to the Annual Planning and Budget Review process. Outcomes for students and curriculum mapping towards those outcomes were not always a component of the review. Each Dean had an understanding of which units were coming up for review, often based on the cycle of appointments for Department Heads. Most Deans did not keep an explicit forward looking schedule for an overall understanding and tracking of upcoming reviews and the outcomes of reviews which could be compiled across the University by the Provost Office.
<p>(ii) Do the guidelines provide measurable, consistent means and direction to undertake diversified program review?</p>	<ul style="list-style-type: none"> Currently the PPG provide guiding principles and processes that address which units should undertake review as well as the frequency, Terms of Reference, selection of reviewers, process

	<p>for the review, documentation, follow-up, and reporting to Senate. Each Faculty has created more specific guidelines based on diverse needs. The PPG include a suggested outline for the self-study, with no required sections and no specificity regarding measures or evidence to be reviewed. It was evident in the site visit that the plan is to move forward with policy changes as well as an integrated data management system which will support evidence-based reviews.</p> <ul style="list-style-type: none">• Each exemplar reviewed by the team approached the collection of evidence for the self-study in a different manner, pointing to some inconsistency regarding availability and use of data. Information regarding Indigenous student recruitment, retention, and success varied in each study. Examples of Aboriginal Engagement were largely lacking. The methods of evaluating the quality of faculty teaching varied and included student assessments and peer assessments. At least one department assessed student awareness and accomplishment of program outcomes within specific courses as part of teaching assessment. Equity and diversity of the faculty complement was addressed in a varied manner and there was confusion regarding student head counts vs. student FTE.
(iii) Are the guidelines consistent with institutional Mandate, mission, vision and associated strategic goals?	<ul style="list-style-type: none">• Key to the purpose and goals of UBC are research excellence and transformative learning. The guidelines for the reviews which we saw consistently assessed the quality of faculty research as it pertains to unit activity.• The transformative learning focus has less emphasis in the current PPG as a component of process or content. An emphasis on program outcomes, course outcomes, and educational leadership as mechanisms for transformative learning

	has been added more recently to the strategic goals of the institution. The PPG includes a section of the self-study outline addressing a review of curriculum and pedagogy, though not necessarily course or program outcomes.
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D. Does the process promote quality improvement?

CRITERIA:	COMMENTS / RECOMMENDATIONS:
(i) The institution should be able to demonstrate that it has appropriate accountability mechanisms functioning for vocational, professional and academic programs.	<ul style="list-style-type: none"> Professional programs undertake accreditation as well as participating in the academic unit reviews which incorporate some aspects of the Accreditation process. Academic programs offered by an academic unit would all be reviewed as a component of the unit/department review. Asian Studies, for example, includes multiple undergraduate majors as well as graduate programming therefore the focus of the review is less on specific programming and more on the plans for the unit and the quality of the inputs to the program such as faculty research, space, and TA support. The Provost provides to Senate an annual summary of the Academic Unit Reviews and any Accreditation Reviews which includes the Unit and Faculty response. Responses focus on a broad array of areas for change (not just undergraduate or graduate programming) and are not necessarily formulated as action plans which would include timelines and follow up accountability.
(ii) The institution should be able to demonstrate how faculty scholarship and professional development inform teaching (including graduate teaching) and continue to be a foundation for ensuring that programming is up to date.	<ul style="list-style-type: none"> Faculty scholarship and professional development is a strong component of the UBC vision and goals. This includes valuing educational leadership through the development of faculty members in various disciplines who specialize in teaching leadership.

	<ul style="list-style-type: none"> The PPG outline for the self-study includes a section addressing research, scholarship and professional activity which focuses on research productivity and this section was comprehensive in the exemplars provided. The section is not explicitly linked to undergraduate programming however the self-study outline suggests that graduate students would provide input to the self-study and the review team regarding the research mentoring that they receive.
(iii) The institution should be able to demonstrate how learning outcomes are being achieved and how student progress is assessed and measured.	<ul style="list-style-type: none"> It was evident in the discussions during the QAPA site visit that the CTLT as well as the Professors of Teaching are providing significant leadership in developing program and course learning outcomes as well as providing guidance on curriculum mapping. These components were less clear in the self-studies and external review team reports. The embedding of teaching and learning specialists and learning analytics specialists into departments is a promising strategy to champion the use of learning outcomes within programs.

4.2. Review findings

A. Were the responses to the sample program review findings adequate?	
CRITERIA:	COMMENTS / RECOMMENDATIONS:
The institution has a follow up process for internal program reviews and acts in accordance with it.	<ul style="list-style-type: none"> UBC has a very decentralized process for quality assurance program reviews and there is variability in follow-up processes. There is a requirement in each review that units must comment on the previous review and follow-up. Deans are tasked with tracking the action plans from reviews and there is a two-year reporting process in place. This audit does suggest increased coordination of reviews and enhanced procedures for accountability

B. Does the process inform future decision making?

CRITERIA:	COMMENTS / RECOMMENDATIONS:
The program review ensures that the program remains consistent with the institution's current mission, goals and long-range plan.	<ul style="list-style-type: none">The three exemplars that were included in this audit were reviewed at the time when the "Place and Promise" institutional strategic plan was in place and all referenced the plan in their self-study. There was also evidence in each case that their programs were in alignment with and contributed to the mission, goals and strategic plans of the faculty and the institution.

C. Are the review findings appropriately disseminated?

CRITERIA:	COMMENTS / RECOMMENDATIONS:
The institution has a well-defined system to disseminate the review findings to the appropriate entities.	<ul style="list-style-type: none">It is common practice to ensure that all members of the unit under review receive the external review report and the response to that report. Following the two-year review by the Dean, the Provost includes a summary of the program review in an annual report to Senate and that becomes a public document. In each of the cases that this panel reviewed, the report to Senate provided sufficient detail in the summary to highlight the important elements of the program review and recommendations. The audit team has recommended that UBC consider increased transparency of the entire review process.



15th April 2019

Dao T. Luu

Corporate Planning, International and Quality Assurance | DQAB Secretariat
Ministry of Advanced Education, Skills and Training
Province of British Columbia

Dear Dao,

Thank you to the QAPA external review panel and yourself for the informative site visit and follow-up report. The comments we received regarding the work of UBC and its faculties on aligning quality and enhancement to date were greatly appreciated. We are looking forward to progressing with our work plans and updating our policies and procedures in light of the recommendations.

In reviewing the report for accuracy, we have inserted several points for consideration on the attached copy. Please contact me if you have any queries on these.

Attached is an action plan reflecting how we will address and implement the recommendations over time. In preparing our response, we have categorized these recommendations into five broad work areas as listed below, and we are working through these in order of principles, policies and process/procedures:

1. Principles – Development of principles for QA / E at UBC level. We are completing this work in conjunction with updating our Academic Review Policy.
2. Policy - Revision of policy for External Reviews of Academic Units. Following completion of a robust engagement process throughout 2019, the Senate Academic Policy Committee will be prepared to review suggested changes in 2020.
3. Process – Revision of guidelines for operationalizing unit reviews. The timeline will include engagement over 2019. The Senate Academic Policy Committee is prepared to review suggested changes in 2020 with assurance that a full engagement process has been completed.
4. New Programs Hub – Operationalization of the NPH and review after two cohorts of a new program.
5. Graduate Program Learning Outcomes– Development of PLOs for graduate programs.

Once again, thank you for your time and guidance during this process over the past year. I look forward to working with you again in the future.

With kind regards,

<i>Ref.</i>	<i>Recommendation</i>	<i>Response/ Action/ Timeline</i>	<i>Responsibility</i>
R.1	Enhance coordination of Quality Assurance/Enhancement (QA/E) processes through tracking by the Deans' and Provost's Offices to provide an institutional map of academic unit reviews, QA/E processes anticipated over the next 3-5 years.	<p>In progress and building on the submission for the QAPA process. Implementation will be in line with policy approval and close working with Faculties for roll out in line with their review timelines.</p> <p>Action – Process</p> <p>Timeline – Next several years for full implementation.</p>	Vice-Provost & Associate Vice-President, Academic Affairs
R.2	Enhance the role of CTLT in supporting coordination of the process to ensure development and mapping of Program Learning Outcomes (PLOs) across campus.	<p>Tying outcomes (development or review) to department reviews and offering CTLT support where required. Utilizing best practice from units where this work has already been undertaken.</p> <p>Departments to articulate student learning outcomes for programs, particularly at the undergraduate level. Emphasize that outcomes are intended to be reviewed regularly, as fields and expertise change over time, and are not to inhibit academic freedom. Rather they are a guide for both faculty and students.</p> <p>Action – Process</p> <p>Timeline – Next several years for full implementation.</p>	<p>Associate Provost Teaching & Learning</p> <p>Vice-Provost & Associate Vice-President, Academic Affairs</p>
R.3	Develop a set of principles to guide the QA/E process at UBC (e.g., focus on student learning outcomes and the centrality of peer review).	<p>Undertake project to develop principles utilizing internal and external examples.</p> <p>Action - Principles for QA/E at UBC.</p> <p>Timeline – Mid-2020 in line with Academic Review Policy approval with several years for full implementation.</p>	<p>Vice-Provost & Associate Vice-President, Academic Affairs</p> <p>Academic Governance Officer, Senate Secretariat</p>

Ref.	Recommendation	Response/ Action/ Timeline	Responsibility
R.4	<p>In the revised <i>Guidelines for the External Review of Academic Units</i>, consideration should be given to increasing the transparency and dissemination of outcomes of unit reviews.</p> <p>Report recommendation; Transparency of the nature of the process is defined in the current policy, however, consideration should be given in the new policy and procedures to enhanced transparency of the outcomes and dissemination of the self-study as well as the summary of outcomes of the external review process.</p>	<p>Include recommendation into the updated policy, guidelines and process for reviews. Share best practice examples from within UBC.</p> <p>Action – Policy / Process</p> <p>Timeline – Ongoing within policy and implementation processes</p>	<p>Vice-Provost & Associate Vice-President, Academic Affairs</p> <p>Academic Governance Officer, Senate Secretariat</p>
R.5	<p>The revised unit-review guidelines should Include a deeper embedding of Indigenous perspectives. In addition, consideration should be given to the inclusion of these perspectives in defining research excellence, for example, in tenure and promotion processes.</p>	<p>(1) Work with Indigenous leaders to support actions as part of UBC wide work within strategic plan implementation.</p> <p>(2) Policy for standard CV: Include as standard within equity and diversion section query on work related to Indigenous engagement.</p> <p>Action – Process</p> <p>Timeline – In review, Indigenous Leaders and Faculty Relations.</p>	<p>(1) Vice-Provost & Associate Vice-President, Academic Affairs / Academic Governance Officer, Senate Secretariat</p> <p>(2) Faculty Relations</p>
R.6	<p>A great deal of progress has been made at UBC on the development of Program Learning Outcomes (PLOs) and their assessment in undergraduate programs. PLOs should now be emphasized within graduate programs as well.</p>	<p>CTLT working with the Faculty of Graduate and Postdoctoral studies to map and develop PLOs for graduate programs.</p> <p>Action - Grad program PLO's</p> <p>Timeline – Update as programs are reviewed</p>	<p>Centre for Teaching & Learning</p> <p>Dean and Vice-Provost, Graduate and Postdoctoral Studies, Faculty of Graduate and Postdoctoral Studies</p>
R.7	<p>Consider adding to the criteria for external reviewers a competency in understanding concepts of LOs and their assessment in competency-based education rather than only discipline expertise.</p>	<p>Define our approach to learning outcomes and include this area of expertise within the process guidelines and reviewer orientation.</p>	<p>Vice-Provost & Associate Vice-President, Academic Affairs</p>

Ref.	Recommendation	Response/ Action/ Timeline	Responsibility
		Internal UBC reviewer to be well versed in UBC learning outcomes, budget model and processes. Action – Process Timeline – Ongoing to end 2025	
R.8	Incorporate an orientation for all peer reviewers that focuses on Canadian, British Columbia, and institutional contexts, including relevant budget models.	Develop orientation process for external reviewers. To further support academic units, UBC work towards an annual orientation for units undergoing a review in the following year. Action – Process Timeline – Ongoing to end 2025	Vice-Provost & Associate Vice-President, Academic Affairs
R.9	Provide more direction in the preparation and vetting of self-studies to ensure self-reflection, better analysis of evidence and a future-looking orientation. Self-studies should be shorter and more focused. A maximum of 30-40 pages, plus appendices, might be a reasonable guideline.	Principles and process to be reflected in the updated policy. Action – Policy Timeline – Mid-2020 in line with Academic Review Policy approval with several years for full implementation.	Vice-Provost & Associate Vice-President, Academic Affairs Academic Governance Officer, Senate Secretariat
R.10	Responses to unit reviews should include action plans that align with the university's and the unit's strategic plans. These plans should include specific actions, timelines, resource implications and accountability channels. In addition, action plans should be approved by the cognizant Deans and assessed by appropriate Senate Committees.	There are examples of Faculties where this is in place, utilize this good practice in engaging with other Faculties to promote consistency across UBC. Action - Policy / Process Timeline – Mid-2020 in line with Academic Review Policy approval with several years for full implementation.	Vice-Provost & Associate Vice-President, Academic Affairs Academic Governance Officer, Senate Secretariat
R.11	The maximum time between reviews should be no more than eight years with a target of five to seven years.	Will review and progress as part of updating the academic review policy. Action - Policy / Process	Vice-Provost & Associate Vice-President, Academic Affairs Academic Governance Officer, Senate Secretariat

<i>Ref.</i>	<i>Recommendation</i>	<i>Response/ Action/ Timeline</i>	<i>Responsibility</i>
		Timeline – Mid-2020 in line with Academic Review Policy approval with several years for full implementation.	
R.12	New Senate Policy and Guidelines for academic unit reviews should be subject to external review and feedback prior to moving to Senate approval.	<p>Recommendation will be included within the policy development process.</p> <p>Action - Policy / Process</p> <p>Timeline – Mid-2020</p>	<p>Vice-Provost & Associate Vice-President, Academic Affairs</p> <p>Academic Governance Officer, Senate Secretariat</p>