



Vancouver Senate

THE FIFTH REGULAR MEETING OF THE VANCOUVER
 SENATE
 FOR THE 2022/2023 ACADEMIC YEAR

WEDNESDAY, 18 JANUARY 2023

6:00 P.M.

LSC 1003 AND VIA ZOOM

- 1. Call to Order and Territorial Acknowledgement** – Dr Deborah Buszard
- 2. Minutes of the Meeting of 14 December 2022** – Dr Deborah Buszard (approval)(docket pages 3-26)
- 3. Business Arising from the Minutes** – Dr Deborah Buszard (information)
- 4. Remarks from the Chair and Related Questions** – Dr Deborah Buszard (information)
- 5. Report from the Presidential Search Committee** – Dr Robert Kozak (information)
- 6. Candidate for a Degree** – Dr Deborah Buszard

The list as approved by the faculty is available for advance inspection at the Senate Office, and will also be available at the meeting.

The Chair of Senate calls for the following motion:

That the candidate for the degree as recommended by the faculty be granted the degree for which they were recommended, effective 18 January 2023, and that a committee comprised of the Registrar, the dean of the relevant faculty, and the Chair of the Senate be empowered to make any necessary adjustment.

(2/3 majority required)

- 7. Academic Policy Committee** – Dr Kin Lo

Classification of Students – Unclassified (approval)(circulated – docket pages 27-32)

- 8. Joint Report from the Academic Policy and Curriculum Committees** – Dr Kin Lo

Master of Global Surgical Care (approval)(docket pages 33-51)



9. Admissions Committee – Prof. Carol Jaeger

Doctor of Medicine – Enrolment Targets and Program Expansion (approval)(docket pages 52-56)

10. Nominating Committee – Dr Paul Harrison

Appointment of Faculty Member to the President's Advisory Committee for the Extension of the Vice-President, Students (approval)(circulated under separate cover – docket page 56a)

11. Annual Report from the Vice-President | Research and Innovation – Dr Gail Murphy (information) (docket pages 57-90)

12. Report from the Registrar – Ms Rella Ng

Academic Year 2023-2024 Term Dates (approval) (docket page 91-92)

13. Other Business



VANCOUVER SENATE

MINUTES OF 14 DECEMBER 2022

DRAFT

Attendance

Present: President D. Buszard (Chair), R. Ng (Secretary), F. Andrew, M. Aronson, G. Averill, S. Bates, E. Bhangu, L. Burr, E. Cantiller, V. Chitnev, A. Collier, M. Coughtrie, D. Dahl, P. Englezos, G. Faulkner, A. Fisher, N. Ford, S. Forwell, J. Fox, J. Gilbert, S. Gopalakrishnan, R. Hajizadeh, J. Hare, P. Harrison, A. Ivanov, C. Jaeger, K. Kanji, K. Khosla, R. Kozak, C. Krebs, V. Li, K. Lo, M. MacPhee, S. Matsui, C. Menzies, J. Olson, S. Parker, H. Petraschuk, S. Pelech, N. Pindell, S. Porter, A. Pratap-Singh, A. Scott, L. Shpeller, S. Singh, K. Smith, R. Spencer, Jac. Stewart, Jam. Stewart, Jan. Stewart, M. Tan, S. Thorne, G. Tsiakos, D. Turdy, R. Yada, K. Yu, H. Zerriffi.

Regrets: M. Amirsharafi, R. Boushel, J. Bulkan, J. Dierkes, A. Dulay, B. Fischer, C. Godwin, D. Goyal, S. Grayston, J. Greenman, A. Greig, A. J. Hendry, C. Marshall, X.T. Jiang, D. Kelleher, S. Kenston, M. Kuus, H. Leong, M. MacDougall, S. Nicolaou, B. Nguyen, S. Point, I. Price, A. Singh, R. Sissons, M. Stewart, L. Stothers, R. Topping, G. Turcotte, A. Uzama, H. Von Bergman, G. Yee, A. Zhao.

Clerk: A. Breen

Guests: A. Bradley, E. Tan, G. Kim, P. Colozzo, J. Steen

Call to Order

The Chair of Senate, Professor Deborah J. Buszard called the third regular meeting of the Senate for the 2022/2023 academic year to order at 6:10 pm.

Minutes of the Meeting of 18 November 2022

The Chair noted that a number of typographical corrections had been sent to the Clerk and thanked Dr Pelech for identifying them.

Gage Averill	}	<i>That the Minutes of 18 November 2022 be adopted as corrected.</i>
Joanne Fox		



Approved

Remarks from the Chair and Related Questions

The President offered her congratulations to Dr. Gage Averill for his appointment as UBC's next Provost and Vice-President, Academic, noting that he had served in the role *pro tem* since April 2022. The President recognized Dr Averill's contributions to the University to date and commented that she looked forward to continuing to work with him.

The President also extended her congratulations to Dr Susan Parker on her re-appointment as University Librarian for a second five-year term, until August 2027.

The President recognized the Faculty of Medicine, highlighting that it had recently received a \$33.8 million gift for multiple sclerosis research and care, the largest known donation for MS research worldwide.

The Board of Governors recently approved the 2023-2024 tuition and non-instructional fees, which include a 2% increase in tuition for new and continuing domestic undergraduate and graduate students and increases between 2 and 5 percent for international students. The President noted that by maintaining the 2% increase for domestic tuition, and a modest increase for international tuition, the base tuition rate upon which future increases will apply will enable the University to cover some inflationary pressures and allow continued investment in the core academic mission of the University, including the student learning experience, as well as implementation of recommendations from the Student Affordability Task Force and recommendations outlined in President's Task Force on Anti-Racism and Inclusive Excellence Report.

The President noted that Premier Eby has appointed Selina Robinson as the Minister for Post-Secondary Education and Future Skills and that she is looking forward to collaborating with Minister Robinson to strengthen and enhance higher education in British Columbia.

As this was the last meeting of 2022, the President offered her best wishes for the holiday season, wishing everyone a joyous and restful break, and thanked members of Senate for their efforts and contributions.

Report from the Presidential Search Committee

As the elected Senate representative to the Presidential Search Committee, Dr Kozak was invited to provide an update to Senate on the search for the next UBC president. Dr Kozak noted that he



is to update to Senate on behalf of the search committee chair, Chancellor S. Point, on the progress of the presidential search. These reports will be a standing item for the duration of the search.

Dr Kozak noted that the committee held its first meeting on December 1st for members to familiarize themselves with processes and procedures. The search committee has discussed opportunities for stakeholder engagement in the search process and more information will be forthcoming as the committee maps out key milestones in the search process.

Dr Kozak noted that, in compliance with guiding principles and procedures for presidential searches as approved by the Senate and the Board of Governors, the Executive Committee of the Board recommended Boyden as the executive search firm to support the committee and that the search committee has accepted the recommendation.

Admissions Committee

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

**BACHELOR OF MEDICAL LABORATORY SCIENCE – ADMISSION
 BACHELOR OF SCIENCE IN NURSING – APPLICATION AND DOCUMENT SUBMISSION
 MASTER OF SCIENCE IN SPEECH LANGUAGE PATHOLOGY – REVISED ENROLMENT TARGETS
 INDIVIDUAL JOINT DOCTORAL PROGRAMS – SUSPENSION OF ADMISSION**

Prof Jaeger moved an omnibus motion for Items a through d of the Committee's reports.

Carol Jaeger
 Steven Pelech

}

That Senate approve changes to admission requirements for applicants to the Bachelor of Medical Laboratory Science, effective for the 2023 Winter Session and thereafter.

That Senate approve changes to the application process for admission to the Bachelor of Science in Nursing, effective for the 2022 Winter Session.

That the Senate approve an increase in enrolment targets for the Master of Science in Speech Language Pathology, from 36 to 38, for entry to the 2023 Winter Session only.



That Senate approve suspension of admission to Individual Joint Doctoral Programs, effective for Term 2 of the 2022 Winter Session and thereafter.

Approved

MEMORANDUM OF UNDERSTANDING – UBC AND CURTIN UNIVERSITY

Prof Jaeger outlined the proposed affiliation between UBC and Curtin University to offer a micro-credential in mine decommissioning.

Carol Jaeger Steven Pelech	} <i>That Senate approve and recommend to Senate for approval the terms of the affiliation between the UBC Faculty of Science (Department of Earth, Ocean and Atmospheric Sciences), Curtin University, Rio Tinto Services Limited, and Ernst & Young Services Pty Limited, as set out in the "Memorandum of Understanding Introduction to Mine Closure Course."</i>
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Professor Jaeger noted that Professor John Steen was in attendance to also answer questions. It was acknowledged that this MOU is different in nature than those normally considered by Senate. The MOU presented for approval is a combination of two academic institutions and two industry leaders partnering to offer courses leading to a micro-credential.

Senator Singh asked whether there is a typographical error in the MOU where it shows Curtin University, Austria rather than Australia. In response, the Chair acknowledged that the error will be corrected, as a friendly amendment.

Senator Singh asked a follow-up question, as to the involvement that the two companies will have in developing curriculum. In response, Professor Steen noted that both companies will have representation on the proposed advisory board for the development and delivery of the proposed credential. The industry partners will also support recruitment of students for the credential, which is articulated in the MOU.

Senator Menzies asked how common it is for the University to form a relationship with companies in order to deliver a course and also how much effort has been given to isolate



the influence of the companies from the course, taking into account incidences that have been connected to Rio Tinto.

In response, Professor Steen explained that the development of curriculum will rest solely with the respective universities, whereas the advisory board, which will have representation from the companies, will offer general advice related to the courses. He went on to say that it is encouraging to have managers and representatives from the industry partners be committed to taking the courses, particularly because the course will include independent and Indigenous views of mine closure practices.

Senator Harrison noted that the MOU gives provision for an advisory board that is chaired by Rio Tinto, but there is no specific mention of the academic and intellectual components of the courses being under the purview of the respective universities. Senator Harrison asked whether such a provision can be added.

In response, Professor Steen noted that the MOU articulates the roles of the universities and the advisory board and that this was a point of discussion during negotiations. He further noted that the advisory board also includes representation from government regulators and Indigenous communities.

Senator Harrison noted that he did not note the separation of roles in the MOU that Professor Steen had described. In response, Professor Steen noted that Curtin University and its Cooperative Research Centre for Healing have reviewed the proposal and are comfortable with it.

Senator Zerriffi asked why the Senate is involved in the approval of this proposal, as Senate is not involved in the approval of non-credit micro-credentials. Professor Jaeger asked the Clerk to respond. The Clerk noted that the Senate is being asked to approve the affiliation per Council Policy C-2. It is typical that these agreements come through the Senate Admissions Committee, then are presented to the Senate. Following Senate approval, the agreement is forwarded to the Council of Senates for approval, followed by review and approval by the Board of Governors. The Senate is following the normal process; however, this one of the first affiliations where the agreement includes both academic and industry partners. The Clerk further noted that if the affiliation was only with a private company, and did not include another university, the agreement would not need to go through Senate and Board approval processes.

Senator Collier voiced her support for the proposal, noting that UBC currently engages with a number of corporations on cooperative education. She further stated that it is her opinion that personal, philosophical beliefs about specific corporate entities should not



impact whether an affiliation is approved. She further stated that the affiliation under consideration is with another university, therefore the connection to the companies is not germane to the discussion.

Senator Lo also noted concerns regarding clarity in the agreement with respect to the contributions and obligations of the involved parties. He further noted that the agreement is not structured in a way that clearly states that the academic partners are solely responsible for the academic content of the courses, and that the agreement does not reference academic freedom.

In response, Professor Steen noted that this is a MOU, with a contract to follow. This is a starting point and from here, UBC and Curtin University will align on the development of the courses.

Senator Singh noted that the MOU states that all four parties will work collaboratively in creating, delivering and marketing the micro-credential training courses. He noted that it appears that the companies are involved in creating the courses.

In response, Professor Steen noted that the topic for consideration is the relationship with Curtin University. Neither university will permit the involvement of the industry partners in the creation of the courses. Design and delivery of academic content will be done by faculty members at the respective universities.

Senator Singh responded that the MOU requires greater clarity on the respective roles and responsibilities of all parties to the agreement. Professor Steen noted that the Office of the University Counsel and the Senate have clearly indicate that involvement of the industry partners in the development and delivery of course content will not be tolerated, and that this should provide reassurance to senators. He further explained that in terms of marketing and promotion, it is intended that these courses will be marketed to the mining industry globally. Ernst & Young and Rio Tinto will be involved in marketing and promotion, but not the content design and delivery of the courses.

Senator Menzies noted that the discussion has been informative in showing that the Senate should look at agreements in greater detail. He asked that the appropriate committee should examine policies related to academic affiliations, whether they are to offer credit or non-credit programs, that involve partnerships between commercial entities and academic institutions particularly where the roles and responsibilities of respective parties are not explicitly stated in the agreement. Senator Menzies also added to an earlier comment that similar relationships are routine in some disciplines by stating



that if they are happening without regulation, that the Senate should have more oversight and control going-forward to ensure that UBC's academic mission is maintained.

The Chair agreed that the committee charged with the review of affiliations should consider broader policy issues related to industry and academic partnerships but that the proposal before the Senate should be considered separately from any forthcoming reviews.

Senator Olson noted that it is common for companies to be involved in the development and delivery of courses in engineering at UBC, adding that industry partners offer required technical expertise and experience in the programming offered to students. Dean Olson provided the comparison of doctors training without the involvement of health-care specialists, noting engineers similarly need the same level of instruction and support from professionals working in that discipline. Nearly all adjunct engineering professors are employed in industry and are intimately involved in the development of courses in the Faculty of Applied Science. He stated that it would be difficult to individually assess the involvement of industry of each of these relationships and then have that relationship evaluated by Senate.

Senator Zerriffi spoke in support of Senator Olson's comments. He noted that his Faculty similarly has industry professionals who are important partners the delivery of course content. He clarified his earlier comments, noting that he meant to say that Senate does not need to be involved in the development of non-credit courses offered as part of the micro-credential. He added that Faculties are likely doing a fine job of assessing the degree to which industry partners should be and are involved in the development of non-credit courses.

Senator Harrison spoke in support of the type of micro-credential and courses that are intended to be developed under the proposed affiliation. He noted that for future agreements, he would like to see better clarity in the documents specific to the academic aspects that are under Senate's purview. Senator Harrison noted that diligence is still required on the part of Senate, even when assessing agreements that have been reviewed by University Counsel.

Senator Coughtrie spoke in the support of the comments made by Senators Olson and Zerriffi. Within his Faculty there is a need for practicing pharmacists to be involved in the development and delivery of courses, and that the experiential learning gained from partnering with industry is critical for students in his Faculty. He shared that it would be ill-advised for Senate to become involved in assessing each of those relationships and that relationships with industry partners in the delivery of academic programs should be managed by faculties.



Approved

Awards Committee

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

NEW AND REVISED AWARDS

See Appendix A: Awards Report

Senator Thorne noted that the Committee's report outlines four new endowed awards, seven new annual awards, four items with changes to previously approved awards.

See Appendix A: Awards Report

Sally Thorne	}	<i>That Senate accept the new and revised awards as listed, that they be forwarded to the Board of Governors for approval, and that letters of thanks be sent to the donors.</i>
Lawrence Burr		

Approved

Curriculum Committee

The Chair of the Senate Curriculum Committee, Dr Claudia Krebs, presented.

CURRICULUM PROPOSALS FROM THE FACULTIES OF ARTS AND GRADUATE AND POSTDOCTORAL STUDIES

See Appendix B: Curriculum Report

Claudia Krebs	}	<i>That the new courses, new course codes and revised programs brought forward by the Faculties of Arts, and Graduate and Postdoctoral Studies (Applied Science, Arts and Medicine) be approved.</i>
Joanne Fox		



Approved

Nominating Committee

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

APPOINTMENT OF SENATORS TO THE PRESIDENT'S ADVISORY COMMITTEE FOR THE SELECTION OF THE VICE-PROVOST AND ASSOCIATE VICE-PRESIDENT, TEACHING AND LEARNING

Paul Harrison Romina Hajizadeh	} <i>That Kamil Kanji, Jaclyn Stewart and Charles Menzies be appointed to a President's Advisory Committee for the Selection of a Vice-Provost and Associate Vice-President, Teaching and Learning,</i>
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Approved

Dr Harrison thanked Senators Kanji, Stewart and Menzies for their willingness on this important selection committee.

Tributes committee

The Chair of the Senate Tributes Committee, Dr John Gilbert presented.

EMERITUS APPOINTMENTS

See Appendix C: Candidates for Emeritus Status

John Gilbert Sally Thorne	} <i>That the attached list of individuals for emeritus status be approved and that pursuant to section 9(2) of the University Act, all persons with the ranks of, Professor, Associate Professor, Assistant Professor, Professor of Teaching, Associate Professor of Teaching, or Administrative Librarian be added to the Roll of Convocation</i>
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Approved

Annual Report from the University Librarian

Dr Parker began the presentation of the Librarian's Annual Report for 2021-2022 by thanking the Senate for the opportunity to present, and noting her gratitude to be reappointed as the University Librarian for another five-year term. She noted that the presentation will include highlights from the 2021/22 fiscal year, a report on the current state of the library, and upcoming and future plans.

Dr Parker offered her thanks to the Senate Library Committee for its support and recognized Committee Chair Dr Shigenori Matsui and Vice-Chair D. Lawrence Burr. A note of gratitude for the Provost and Vice-President, Academic Dr Gage Averill and the entire UBC Library system, including librarians, archivists, staff, and student employees was noted Dr Parker noted that the presentation will focus on the Vancouver campus as the Okanagan Library delivers a separate report to the Okanagan Senate.

The first part of the presentation focused on the Library's role in the advancement of research, learning and scholarship at the University and the multiple ways in which it contributes to the University's commitment to research excellence. During the reporting period, the library offered almost 1000 instructional workshops servicing almost 25000 participants. In addition, library staff also meet individually with students and faculty in classroom and individually, virtually and in-person.

Dr Parker shared that the library has recently launched an open access journal and text service to help UBC faculty, researchers, instructors, students and staff develop open access publications for scholarship and instruction. This free service advances open scholarship by providing the supports needed to make UBC information resources openly available.

Dr Parker noted that UBC has also become the first Canadian institution to join Dryad, a non-profit organization that brings together universities, research institutions and academic libraries to promote data publishing, curation, and preservation. With more than 600 UBC-authored datasets already available in Dryad, an institutional membership provides UBC-affiliated researchers with access through their Campus-Wide Login, which includes unlimited dataset submissions at no cost.

The UBC Library Digitization Centre also created web archives to preserve materials relating to the COVID-19 pandemic response in British Columbia for future research. These open collections document different facets of the pandemic response by capturing digital materials



such as media releases, local news articles, UBC communications, and BC provincial government websites.

The Library also provided access to the Data Advice and Inventory Extracts from BC Assessment, which include value assessments for over two million properties in British Columbia, thus providing new opportunities for collaborative community-university research projects. The Scholarly Communications and Copyright Department launched a new webinar series that focused on open publishing processes and practices in the humanities, social sciences and sciences, further supporting graduate students, post-doctoral students and faculty members to develop their academic profile.

Dr Parker noted that the Research Commons also released a major update to the open-source data discovery tool Geodisy, an open source discovery tool that allows users to find open data from Canadian repositories in a visual way. Through an integration with the Federated Research Data Repository Discovery Portal, the collection available for geospatial search has expanded to include more than 86,000 records from over 70 Canadian research data repositories. The Commons also partnered with the UBC Future Waters Research Excellence Cluster to develop a model to visualize research outputs.

Dr. Parker shared one final note with respect to the Library's role in advancing research and scholarship, via the launch of a newly curated database of openly accessible teaching and learning materials. Developed in partnership with the UBC Centre for Teaching, Learning and Technology, UBC Okanagan Library and UBC Library, the UBC OER Collection showcases open educational resources in a searchable interface to support both UBC faculty and the general community in incorporating open educational resources and practices into their curriculums.

With respect to engagement with communities, the library continues to foster opportunities for meaningful engagement and knowledge exchange with campus and community partners. Dr Parker gave several examples, including the Generations Lost exhibits, which was presented in partnership with the Faculty of Education, Xwi7xwa Library, curating special collections material related to Canadian residential schools.

The Library also partnered with the Asian Canadian and Asian Migration Studies program in the Faculty of Arts to present an online public panel inspired by the Joan Gillis fonds, a collection of letters that recount the lives of a group of Japanese Canadian teenagers after their forced dispersal from the coastal region of British Columbia in 1942.

A series of workshops on how to collect data about marginalized and underrepresented populations was also an offering available to patrons of the library; noting that Indigenous Peoples, racialized groups and individuals who identify as LGBTQ+ are often underrepresented or hidden in the data sets relied on for research and planning, the workshops were intended to



help students and researchers identify potential data sources and explore the historical and social contexts that can make data on these groups harder to find.

The Library also used funding provided by a UBC Workplace Sustainability grant to offer free, online screenings of three films related to climate change and social justice.

Dr Parker's presentation then outlined the Library's digital and special collections, noting that the Library has a total of 3.7 million e-books and 5.6 million physical items in its collection, including books, manuscripts, print journals, maps and more.

A particularly noteworthy acquisition in early 2022 was a first edition of William Shakespeare's Comedies, Histories and Tragedies. Published in 1623, seven years after his death, the First Folio includes 36 of Shakespeare's 38 known plays. The texts, edited by actors and fellow writers, are considered the most authoritative of all early printings. Funding to secure this collection was provided by a consortium of donors from across North America, and with support from the federal Department of Canadian Heritage.

Dr Parker noted that the folio was made available for public viewing alongside three subsequent 17th century Folio editions of Shakespeare's plays in *For All Time: The Shakespeare First Folio*, an exhibit presented in partnership with the Vancouver Art Gallery. Curated by experts from UBC, the exhibit attracted 45000 visitors between January and April 2022.

The University Archives received an extensive collection of materials from the department of Athletics and Recreation, totaling nearly 8,000 photographs along with textual records such as scrapbooks, posters, programs, team rosters, scoresheets, training schedules and other administrative documents. The records span a century from approximately 1915 to 2015, and reflect UBC's rich sporting history.

With funds raised on Giving Day 2021, the Library was able to purchase three rare items to add to UBC's Queer Collection at Rare Books and Special Collections: *Messes Noires: Lord Lyllian* by Jacques d'Adelsward Fersen, *Ercole Tomei* by Guido Hermann Eckardt, and *The Classification of Crimes: being a seventeenth chapter of A History of Penal Methods* by George Ives.

Dr Parker shared that the Library strives to plan and manage its resources effectively and is well positioned for sustained change and growth. It is working to align decisions and procedures with University's vision and values and the University's goals as outlined in the UBC Inclusion Action Plan and the Indigenous Strategic Plan.

Dr Parker shared that she was elected vice-president of the Association of Research Libraries for a one-year term and will begin her term as President on 1 January 2023.



Next, Dr Parker outlined the Library's budget and fiscal year expenditures. In the past 15 years, the Library has seen a significant shift from print to electronic resources. In 2020-21, the collections budget devoted to electronic resources peaked at about 92%, which is a response to the particular needs of members of the university community teaching and learning remotely at the time. In the last fiscal year, the spending on print resources increased for the first time in several years, a one-time occurrence that reflects the successful fundraising efforts that allowed for the acquisition of the First Folio. It is expected that these percentages will likely return to previous numbers.

For FY 2020/21 82% of the Library's collections budget was utilized for purchases of materials invoiced in US dollars. Due to the exchange rate, the library lost roughly 12% of its USD buying power, which is a slight improvement over the last reporting period. To mitigate this loss of buying power, the Library works closely with central finance to strategize more effectively around collections needs.

As in past years, the Library received extra financial support from the Provost's Office. Due to the impact of inflation and the exchange rate on the Library's purchasing power, the Provost's Office and the Library work closely to consider the Library's long-term budgetary needs and develop a financially sustainable position. Dr Parker noted that a gradual expansion of the base budget of the Library is outlined in the *Accelerate* phase of the President's Academic Excellence Initiative.

Dr Parker shared that the Library underwent an external review in March 2022 and is now in the process of implementing many of the recommendations outlined in the review report, which includes a strategic review of the Library's organizational structure.

The Library's Indigenous Strategic Plan Implementation Group is currently hosting live reading sessions of the Truth and Reconciliation Calls to Action and the United Nations Declaration on the Rights of Indigenous Peoples for faculty and staff across the library system.

The Library will continue the recently launched Equity, Diversity, and Inclusion (EDI) Scholars-in-Residence Program which is open to scholars from any discipline. The residency takes place over two academic terms, and includes full access to the scholarly resources of UBC Library, space in the Peña Room and an honorarium. The three selected scholars will offer at least one public lecture during their time on campus, and will be available for one-on-one consultations with UBC faculty, staff, and students.

Dr Parker highlighted the upcoming celebration of the first winners of the Undergraduate Prize in Library Research in 2023, which will showcase students' effective and innovative use of library services, information experts and resources provided by the UBC Library. Any student



enrolled in a first year UBC undergraduate program at either at the Okanagan or Vancouver campuses is eligible, and online applications will open on 3 January 2023.

The President thanked Dr Parker for her presentation, and invited questions and comments from Senators. Dr Pelech noted the purchase of the Shakespeare folio, and asked for clarification on the increase in budget and spending from previous years, particularly for print materials. He also asked for confirmation of the full purchase price of the Shakespeare folio.

Dr Parker responded that without the purchase of the Shakespeare folio, the funds used for print acquisitions for the 2001-2022 reporting period are consistent with previous years. Dr Parker stated that the purchase price of the first folio is approximately \$7M, with all funds being secured through fundraising and donations to the UBC Library.

Dr Pelech thanked Dr Parker for her presentation and asked why photographs in the report showed people wearing protective masks, and that faces of individual should be visible in the photographs. Dr Parker responded that the photographs included in the report were those available from that year.

Reports from the Provost

ANNUAL REPORT TO SENATE ON EXTERNAL REVIEWS 2021-22

The Provost, Dr. Averill, presented the annual report on external reviews for 2021-2022. There were 13 academic and administrative unit reviews undertaken in the reporting period, with 11 reviews completed and 2 that have been delayed and will shared with the Senate as part of next year's annual report.

Units reviewed include the Faculty of Dentistry, the University Library and three schools, including nursing and biomedical engineering. UBC IT Services has also undergone a review, along with the Learning Exchange. Departmental reviews conducted include Microbiology and Immunology and the department of Anesthesiology, Pharmacology and Therapeutics.

Dr Averill stated that the process of external review of units is time-consuming and costly, but necessary to improve quality and enhance delivery of programs. He outlined the process for unit reviews, starting with a unit self-study which is shared with external reviewers. The reviewers produce a report, to which the unit and the executive provide a response. This compendium is then shared with the Senate. Senator Averill noted that there is normally a follow-up review two years after the external review is completed to ensure that recommendations for improvement are being implemented.



Dr Averill noted there have been many laudatory comments on the units reviewed and the rise in rank and reputation of units, and equally important is insight into those areas where the University can improve. Several of these include how the University can better meet its goals for indigenization and Indigenous engagement, equity, diversity and inclusion, and graduate funding. Other areas for improvement include communication with key constituents and communities and the University's budgeting and resourcing processes.

Senator Averill noted that a number of the reviews included in the report are for units within the Faculty of Medicine or affiliated with the Faculty of Medicine. Dean Kelleher was unable to attend the Senate meeting but welcomes any questions or feedback senators may have.

PETER WALL LEGACY AGREEMENT

Senator Averill noted that during Senate's consideration of the proposed Peter Wall research awards and fellowships at the October meeting, it was noted that the newly negotiated Peter Wall Legacy Agreement would be shared with the Senate once finalized. The agreement will provide roughly \$4M annually for fellowships and awards for faculty and students across the University. He noted that the terms of reference and membership are being developed and will be shared with the Senate in due course.

Report from the Registrar

2023-2026 TRIENNIAL ELECTION RESULTS

The Registrar shared the results of the first set of election results for the 2023-2026 triennium, including faculty and staff representation to the Board of Governors. In response to two calls for nominations for twelve (12) positions for representatives of the Joint Faculties, ten (10) nominations were received and acclaimed as elected. A third call for nominations for the remaining two (2) positions will be issued in January 2023.

The following individuals were acclaimed as elected:

- Elisa Baniassad, Associate Professor of Teaching, Faculty of Science
- Ben Britton, Associate Professor, Faculty of Applied Science
- Peter Englezos, Professor, Faculty of Applied Science
- Susan Forwell, Professor, Faculty of Medicine
- Joanne Fox, Professor of Teaching, Faculty of Science
- Emily Jenkins, Associate Professor, Faculty of Applied Science
- Suzie Lavallee, Professor of Teaching, Faculty of Forestry
- Charles Menzies, Professor, Faculty of Arts



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Santokh Singh, Professor of Teaching, Faculty of Science
Jackie Stewart, Professor of Teaching, Faculty of Science

Other Business

IN CAMERA – Tributes Committee

CANDIDATES FOR HONORARY DEGREES

Adjournment

Seeing no other business, the meeting was adjourned at 8:14 pm

*Appendix A: Awards Report***NEW AWARDS – ENDOWED****Dr. Richard J. Kerekes Award in Chemical and Biological Engineering**

Awards totalling \$1,750 have been made available through an endowment established by Dr. Joe R. Zhao in honour of Dr. Richard Kerekes (B.A.Sc., M.A.Sc., Ph.D.) for Bachelor of Applied Science students majoring in Chemical and Biological Engineering who have good academic standing and an interest in the forest products and related industries. Dr. Kerekes was the founding director of the UBC Pulp and Paper Centre and served as the director for twenty-two years. He taught many students and made significant research contributions to the science and technology of the pulp and paper industry. The awards are made on the recommendation of the Department of Chemical and Biological Engineering. (First award available for the 2023/2024 winter session).

Dr. Siavash Jafari Memorial Award in Medicine

Awards totalling \$1,750 have been made available through an endowment established by family, friends and colleagues in memory of Dr. Siavash Jafari (1969–2021) for first-generation Canadian M.D. undergraduate students. Dr. Jafari graduated from Shiraz Medical School in Iran in 1999, and went on to obtain his specialty training in public health and preventive medicine, and a fellowship in mental health and addiction in the Faculty of Medicine at UBC. He also held the positions of associate chief medical information officer and clinical assistant professor in the Faculty of Medicine. Dr. Jafari's expertise was in the treatment and research of addiction medicine, mental health, preventative medicine, and chronic pain, which led him to serve on the Royal College Regional Advisory Committee from 2016–2020. Dr. Jafari was also a board-certified physician and member of the American Board of Addiction Medicine. The awards are made on the recommendation of the Faculty of Medicine. (First award available for the 2023/2024 winter session.)

Dr. Philip S. Vassar Pathology Prize

A prize totalling \$8,750 has been made available through an endowment established by the estate of Theodora Elinor Vassar (1930–2020), in memory of Dr. Philip S. Vassar (1924–1976), for a medical resident in their final year of training who has demonstrated clinical excellence in research, innovation, and quality improvement in pathology. Originally from the United Kingdom, Phillip (M.B., B.S.) received his medical degree from the University of London. In 1956, he moved to Vancouver and worked as a surgical pathologist at the Vancouver General Hospital. At this time, Phillip also joined UBC's Department of Medicine as a clinical instructor and in 1965, he was appointed as a professor. Phillip was internationally renowned for his

research in cancer pathology and was a well-respected member of the UBC Department of Medicine. The award is made on the recommendation of the Department of Pathology and Laboratory Medicine. (First award available for the 2023/2024 winter session).

Anna Isabelle Allen Scholarship in Social Work

Scholarships totalling \$5,300 have been made available through an endowment established by the estate of Anna “Ann” Isabelle Allen (1926–2020) for outstanding graduate students studying Social Work. Ann (B.A. 1947, B.S.W. 1950, M.S.W. 1951) received the 125th Anniversary of the Confederation of Canada Medal in 1992 and the Queen’s Diamond Jubilee Medal in 2012 in recognition of her devotion to improving the Child Welfare Program in British Columbia. During a wide-ranging career, Ann worked in roles related to social work for the Province of British Columbia over a period of nearly 30 years. The awards are made on the recommendation of the School of Social Work, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2022/2023 winter session.)

NEW AWARDS – ANNUAL

Jim and Virginia Houghton Bursary in Education

Bursaries totalling \$3,000 have been made available annually through an estate gift from Jim Houghton (1933–2021) and Virginia Ann “Ginger” Houghton (1937–2012) for Bachelor of Education students. Jim was an avid sports enthusiast; he played lacrosse and soccer during some of his formative years and he later enjoyed the challenge of a game of billiards played with friends. Virginia (B.Ed. 1971, M.Ed. 1980), or Mrs. Houghton as she was known by many of her students, started teaching in 1958 at the age of 21 and retired many years later in the 1980s. She mainly taught at elementary schools such as Queen Elizabeth Annex and Tecumseh Elementary School in Vancouver, BC. However, she also took her knowledge of early childhood education to UBC, where she taught the next generation of teachers. She influenced many of her students lives through her grace and strength. The bursaries are adjudicated by Enrolment Services. (First award available for the 2023/2024 winter session.)

Mel Beaton Memorial Award in Law

A \$2,000 award has been made available annually through a gift from Hammerco Lawyers LLP in memory of Mel Beaton (1961–2022), for a second- or third-year student in the J.D. program who has good academic standing. Students must demonstrate an interest in business law or corporate and commercial transactions, and a commitment to access to justice or community service. Preference will be given to students who are the first in their immediate family to attend law school. Mel (B.Com. 1985, LL.B. 1986) was one of the founding partners of Hammerco Lawyers LLP and provided leadership in the practices of business law and corporate and commercial transactions for thirty-five years. He was passionate about community service and provided pro bono services to non-profit organizations. Mel dedicated his time to Education without Borders, a charity organization that provides education support and programs to disadvantaged individuals who have been historically or systemically marginalized. The award is made on the recommendation of the Peter A. Allard School of Law. (First award available for the 2023/2024 winter session).

Dr. Yosef Wosk Award in Nursing for Indigenous Students

Awards totalling \$2,000 have been made available annually through a gift from Dr. Yosef Wosk, O.C., O.B.C., for undergraduate or graduate First Nations, Inuit or Métis students of Canada in the School of Nursing. Financial need may be considered. Dr. Wosk (B.A. 1971) earned seven university degrees and received two honorary doctorates. Dr. Wosk was awarded the Freedom of the City award by the City of Vancouver, and is an Officer of the Order of Canada, a Member of the Order of British Columbia, a Fellow of the Royal Canadian Geographical Society, and a recipient of both the Queen's Golden and Diamond Jubilee Medals. The awards are made on the recommendation of the School of Nursing, and in the case of a graduate student, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2022/2023 winter session).

Dr. Yosef Wosk Entrance Award in ArtsONE

A \$5,000 award has been made available annually through a gift from Dr. Yosef Wosk, O.C., O.B.C., for a student entering the ArtsONE program. Dr. Wosk (B.A. 1971) was one of the first students enrolled in the newly developed ArtsONE program in 1967. He subsequently earned seven university degrees and received two honorary doctorates. Dr. Wosk was awarded the Freedom of the City award by the City of Vancouver, and is an Officer of the Order of Canada, a Member of the Order of British Columbia, a Fellow of the Royal Canadian Geographical Society, and a recipient of both the Queen's Golden and Diamond Jubilee Medals. The awards are made on the recommendation of the Faculty of Arts. (First award available for the 2023/2024 winter session).

Fortinet Award in Computer Engineering

Awards totalling \$3,500 have been made available annually through a gift from Fortinet for outstanding third-year undergraduate students in Computer Engineering who have demonstrated an interest in cyber security, networking, or software security. Preference will be given to students who are from communities that have been historically, persistently, and systemically marginalized. Founded in 2000 and based in Sunnyvale, California, Fortinet is a network security company that specializes in developing and building security processing unit technology, and uses artificial intelligence and machine learning systems to counter security threats to customers. The awards are made on the recommendation of the Faculty of Applied Science. (First award available for the 2022/2023 winter session.)

GHD Award for Diversity in Engineering

Awards totalling \$2,500 have been made available annually through a gift from GHD Civil Engineering for third-year Bachelor of Applied Science students who have a major in Engineering, are in need of financial assistance and are from communities that have been historically, persistently, and systemically marginalized. Established in 1928, GHD is a global network of multi-disciplinary professionals providing clients with integrated solutions through engineering, environmental, design, and construction expertise. The awards are made on the recommendation of the Faculty of Applied Science. (First award available for the 2022/2023 winter session).

Learning from Liveable Cities: The Joyce Drohan Travel Award

A \$10,000 travel award has been made available annually through a gift from family and friends in memory of Joyce Drohan (1954–2022) for a student enrolled in a graduate program at the School of Architecture and Landscape Architecture. Students must be in their second or graduating year of an eligible program and undertaking travel to expand their knowledge of sustainable architecture or sustainable urban design. Joyce Drohan was an award-winning architect and urban designer of public sector projects and sustainable communities. She was especially interested in shaping meaningful places that expressed the historic, cultural, and social aspects of a community, underpinned by sustainable design. The award is made on the recommendation of the School of Architecture and Landscape Architecture, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First award available for the 2022/2023 winter session).

PREVIOUSLY APPROVED AWARDS WITH CHANGES IN TERMS OR FUNDING SOURCE

Endowed Awards

4852 - Catalyst Paper Corporation Fellowship

Rationale for Proposed Changes

Paper Excellence has become the parent company of Catalyst Paper and have requested an update to the endowment and associated award description. Variation of terms was approved at the September Board of Governors meeting.

Current Award Title: Catalyst Paper Corporation Fellowship

Current Award Description

Fellowships totalling \$33,350 have been endowed by Catalyst Paper Corporation. The awards are offered to students from Catalyst Paper Corporation operating communities and surrounding areas. Preference will be given to students from communities outside the lower mainland. The awards are made on the recommendation of the Faculty of Graduate and Postdoctoral Studies.

Proposed Award Title: Paper Excellence Bright Futures Fellowship

Proposed Award Description

Fellowships totalling \$33,350 have been endowed by Catalyst Paper Corporation, a Paper Excellence company. The awards are offered to students from Catalyst Paper Corporation operating communities and surrounding areas. Preference will be given to students from communities outside the Lower Mainland. The awards are made on the recommendation of the Faculty of Graduate and Postdoctoral Studies.

2357 - Catalyst Paper Corporation Scholarship

Rationale for Proposed Changes

Paper Excellence has become the parent company of Catalyst Paper and have requested an update to the endowment and associated award description. Variation of terms was approved at the September Board of Governors meeting.

Current Award Title: Catalyst Paper Corporation Scholarship

Current Award Description

Scholarships totalling \$30,850 have been endowed by Catalyst Paper Corporation. The awards are offered to undergraduate students from Catalyst Paper Corporation operating communities and surrounding areas. Preference will be given to students from communities outside the lower mainland. The awards are made on the recommendation of Enrolment Services.

Proposed Award Title: Paper Excellence Bright Futures Scholarship

Proposed Award Description

Scholarships totalling \$30,850 have been endowed by Catalyst Paper Corporation, a Paper Excellence company. The awards are offered to undergraduate students from Catalyst Paper Corporation operating communities and surrounding areas. Preference will be given to students from communities outside the Lower Mainland. The awards are made on the recommendation of Enrolment Services.

3136 – H. Rocke Robertson Prize in Surgery

Rationale for Proposed Changes

Colleagues in the Department of Surgery requested that only third-year students should be eligible for the prize in order to reduce the candidate pool and ensure equity for third year students enrolled in the M.D. Undergraduate Program.

Current Award Description

A \$950 prize has been endowed by family, friends and colleagues in recognition of the contribution made to the Faculty of Medicine and the Department of Surgery by Dr. Rocke Robertson, as first Professor and Head of Surgery. The award is made on the recommendation of the Faculty to a third or fourth year student showing outstanding ability in the field of surgical studies.

Proposed Award Description

A \$950 prize has been made available through an endowment established endowed by family, friends and colleagues in honour recognition of the contribution made to the Faculty of Medicine and the Department of Surgery by Dr. Rocke Robertson (1912–1988), for first Professor and Head of Surgery. The award is made on the recommendation of the Faculty to a third—or fourth-year medical student showing outstanding ability in the field of surgical studies. Dr. Robertson (B.Sc., M.D.C.M.) was the first Professor and Head of the Department of Surgery at UBC. This prize was established to recognize the contributions that he made to the Faculty of Medicine and the Department of Surgery. The awards are made on the recommendation of the Department of Surgery.

4815 – Malcolm F. McGregor Memorial Scholarship

Rationale for Proposed Changes

The department has changed their name, and the award description has been revised to reflect this. Changes have also been made to bring the award description in line with our current writing practices and biographical information has been added.

Current Award Description

Scholarships to a total of \$2,550 have been endowed by friends and colleagues in memory of Malcolm F. McGregor, head of the Department of Classics between 1954 and 1975. The awards are offered to a graduate student in Classics and are made on the recommendation of the Department in consultation with the Faculty of Graduate and Postdoctoral Studies.

Proposed Award Description

Scholarships totalling to a total of \$2,550 have been made available through an endowment established endowed by friends and colleagues in memory of Malcolm F. McGregor (1910–1989), for outstanding graduate students in the Department of Ancient Mediterranean and Near Eastern Studies focusing on Classics. head of the Department of Classics between 1954 and 1975. Dr. McGregor (B.A. 1930, M.A. 1931, Ph.D., LL.D. 1983) was born in London, England, and moved with his family to Vancouver, British Columbia, as a teenager. After receiving his B.A. and M.A. from UBC, he earned his Ph.D. from the University of Cincinnati. He won the American Philological Association's Charles J. Goodwin Medal for his contribution to The Athenian Tribute Lists in 1954. Dr. McGregor returned to UBC in 1954, where he was a Professor in and Head of what was then known as the Department of Classics from 1954 to 1975. During his tenure as Head of the Department, he awarded its first doctoral degrees and increased the variety and number of classical studies courses offered. The awards are offered to a graduate student in Classics and The awards are made on the recommendation of the Department of Ancient Mediterranean and Near Eastern Studies, in consultation with the Faculty of Graduate and Postdoctoral Studies.

Appendix C: Curriculum Report

FACULTY OF ARTS

New courses

ASIA 419 (3) Economic History of India; **ASIA 429 (3)** Rebels, Martyrs, and Outlaws in Early Modern Japan; **ASIX 220 (3)** Indigeneities in Asia and Asian Diaspora; **ASIX 320 (3)** Global Hong Kong; **ECON 408 (3)** Computational Methods in Macroeconomics; **GEOG 342 (3)** Post- and Anti-colonial Geographies

Revised programs

Major in Latin American Studies; Minor in Latin American Studies

FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

Arts

New courses

ASIA 518 (3) New Media and Asia; **ARST 535 (3)** Personal and Community Archives; **ARST 586 (3)** Progressive and Radical Information Work

Appendix C: Candidates for Emeritus Status

Last Name	First Name	Rank/Ti tle	Faculty/Unit	Emeritus Title
Berman	Peter	Professor	Medicine	Professor Emeritus of School of Population and Public Health
Brands	Ralph	Clinical Professor	Medicine	Clinical Professor Emeritus of Population and Public Health
Bournot-Trites	Monique	Associate Professor	Education	Associate Professor Emeritus of Language and Literacy Education
Brinkman	Ryan	Professor	Medicine	Professor Emeritus of Medical Genetics
Bunnell	Keith	Librarian	Library	Librarian Emeritus
Creese	Gillian	Professor	Arts	Professor Emeritus of Sociology
Frank	Blye	Professor	Education	Dean Emeritus of Educational Studies
Gardiner	Robert	Professor	Arts	Professor Emeritus of Theatre and Film
Goldowitz	Dan	Professor	Medicine	Professor Emeritus of Medical Genetics
Hiebert	Daniel	Professor	Arts	Professor Emeritus of Geography
Jackson	Cathryn	Associate Professor of Teaching	Applied Science	Associate Professor of Teaching Emeritus of Nursing
Jamieson	Janet	Professor	Education	Professor Emeritus of Educational and Counselling Psychology, and Special Education
Jones	Carl	Clinical Associate Professor	Medicine	Clinical Associate Professor Emeritus of Ophthalmology and Visual Sciences
Kent	Nancy	Clinical Professor	Medicine	Clinical Professor of Obstetrics and Gynecology
Kesler	Linc	Associate Professor	Arts	Associate Professor Emeritus of English Language and Literatures
Ko	Frank	Professor	Applied Science	Professor Emeritus of Materials Engineering
Kopec	Jacek	Professor	Medicine	Professor Emeritus of Population and Public Health
Leaf	Michael	Associate Professor	Applied Science	Associate Professor Emeritus of Community and Regional Planning
LeBlanc	Jacques	Clinical Professor	Medicine	Clinical Professor of Surgery
Mackie	Iain	Clinical Professor	Medicine	Clinical Professor of Medicine
Martin (Elwood)	Ruth	Clinical Professor	Medicine	Clinical Professor of Population and Public Health
Meloche	Mark	Associate Professor	Medicine	Associate Professor Emeritus of Surgery
Miller	Bruce	Professor	Arts	Professor Emeritus of Anthropology
Murphy	Susan	Associate Professor of Teaching	Medicine	Associate Professor of Teaching Emeritus of Physical Therapy
Orvig	Christophe r	Professor	Science	Professor Emeritus of Chemistry
Poole	Wendy	Associate Professor	Education	Associate Professor Emeritus of Educational Studies
Pudek	Morris	Clinical Professor	Medicine	Clinical Professor Emeritus of Pathology and Laboratory Medicine
Scott	Mark	Clinical Professor	Medicine	Clinical Professor Emeritus of Pathology and Laboratory Medicine
Singer	Joel	Professor	Medicine	Professor Emeritus of Population and Public Health
Snadden	David	Professor	Medicine	Professor Emeritus of Family Practice
Tan	Elsie	Professor of Teaching	Applied Science	Professor of Teaching Emeritus of Nursing
Tom	Allison	Associate Professor	Education	Associate Professor Emeritus of Educational Studies
Traichel	Rudolf	Librarian	Library	Librarian Emeritus
Van Eeden	Stephan	Professor	Medicine	Professor Emeritus of Medicine
Vogl	Wayne	Professor	Medicine	Professor Emeritus of Cellular and Physiological Sciences
Whitehouse	Sandra	Clinical Associate Professor	Medicine	Clinical Associate Professor Emeritus of Pediatrics
Wilcox	Pearce	Professor	Medicine	Professor Emeritus of Medicine
Yang	Decheng	Professor	Medicine	Professor Emeritus of Pathology



4 January 2023

To: Senate

From: Academic Policy Committee

Re: Classification of Students – Unclassified Students

The Committee has reviewed and recommends to Senate for approval a proposal to clarify continuation requirements for students taking courses via the unclassified student category. Unclassified students will be required to maintain a sessional average of 50% per Winter Session to be eligible to continue. This requirement is consistent with current failed year/continuation policies within degree programs within most faculties.

Motion: That Senate approve changes to continuation requirements for Unclassified Students, effective for the 2023 Winter Session and thereafter.

Respectfully submitted,

Dr. Kin Lo, Chair
Senate Academic Policy Committee



RE: Unclassified Program Policy Revision Request
 06 January 2023

UBC's [Unclassified Program](#) (UNCL) is designed to allow students with previous degrees to take UBC Undergraduate or Graduate level courses for general interest and normally without the intention of applying the credit towards a Degree program. In 2020W, 1294 students in the UNCL Program registered in a total of 3056 courses (155 graduate and 2901 undergraduate courses) across UBC-Vancouver. Table 1 shows the distribution of all UNCL courses taken across campus, including their outcomes. The current process to take courses through this program requires a one-time application confirming a previous degree, completed at UBC or elsewhere. Once admitted, the student has the ability to register in courses indefinitely, regardless of the outcome of the courses.

While most unclassified students have thrived in this program and have succeeded academically, this is not always the case. Some students have been unable to successfully pass courses in multiple academic years. Several situations have arisen where we are not serving students well by allowing them to continue in a program where they are not succeeding.

In two extreme cases (see Examples 1 and 2), a student has registered in courses in 10 and 8 academic years, respectively, without having successfully completed a single course. Example 3 shows a student who failed multiple years, only to return five years after their last attendance by simply requesting that Enrolment Services re-instate their registration eligibility. Re-instating eligibility for former UNCL students comes without any required evaluation of their previous study taking place. While the issue of students failing multiple courses, at times over multiple Winter sessions, predominantly impacts the Faculty of the Arts, Example 4 shows that this issue is not restricted to Arts courses alone.

We know that at times students experience short-term mitigating circumstances that prevent them from successfully completing courses. In such cases, we have in place the academic concession policy to support all students, including those in the UNCL Program. We also know that at other times and for a variety of reasons, students may be unable to recognize and resolve underlying issues that prevent their academic success. In such cases, it may be in a student's best interest to take time away from their studies to address the issues impacting their academic performance. Requiring students to take a break in their studies is the purpose of the Failed Year Policy, which is in place in all UBC faculties. However, the UNCL program has no comparable Failed Year Policy.

In order to have the ability to restrict registration of students who are academically unsuccessful in the UNCL program, we propose adding the following sentence to the UNCL Program Policy "Continuation as an Unclassified Student is normally contingent upon maintaining a sessional average above 50% per winter session."

This sentence is similar to current Failed Year/Continuation Policies within Degree programs offered at UBC-V.



Should this amendment be passed, it would enable the Enrolment Services Non-Degree Studies team to complete sessional evaluations following each Winter Session and restrict the registration of students whose sessional evaluation was below 50%. Unsuccessful students could choose to appeal to Non-Degree Studies for permission to register in specific courses by providing an academic letter of intent, including a list of intended courses, which would be approved or denied by the Non-Degree Studies team, in consultation with the faculty offering the course/s. We submit this, having consulted with the Non-Degree Studies team.

Laura Moss, PhD
Associate Dean, Students, Faculty of Arts

Table 1: The distribution of all 2020W UNCL courses taken across campus and their outcomes.

2020W	Total courses enrolled (includes Passed/Failed/W's /AUD/SD's, Missing grades & Incomplete)	Courses failed	Courses passed	Courses Audited	Withdrawn	Missing Grades	Standing Deferred (SD)	T standing (Incomplete)
Arts	1600	46	1308	141	88	11	6	
Applied Science	48	0	42	3	2	1		
Commerce	11	1	7	2	1			
Education	430	0	420	2	8			
Forestry	87	0	67	2	3			15
Land and Food Systems	71	1	66	1	1	2		
Law	65	0	62	3				
Medicine	202	1	186	9	5		1	
Science	542	19	460	11	48	1	3	
Totals	3056	68	2618	174	156	15	10	15

Example 1: a Bachelor of Applied Science (1999) graduate, who first registered in the UNCL program in 2012W Term 1. Their UNCL registration spans 10 Winter terms between 2012W - 2022W, with 10 courses attempted resulting in 5 O's, 1 F, 3 Missing Grades and 1 Currently in Progress (CIP).

Example 2: a Bachelor of Science in X (1977) graduate, who first registered in the UNCL program in 2015W Term 2. Their UNCL registration spans 8 consecutive Winter terms & 1 Summer term 2015W - 2022W, with 25 courses attempted resulting in 10 O's, 2 F's, 2 Missing Grades, 7 Withdrawals, 1 Audit and 3 CIP. No courses passed.

Example 3: a Bachelor of Science (2012) graduate, who first registered in the UNCL program in 2013S Term 1. Their record shows a gap in UNCL registration from 2015W to 2022W, with no application required for registration eligibility. Their record shows registration in 5 Winter terms & 2 Summer terms between 2013W - 2022W, with 9 courses attempted, resulting in 2 O's, 3 F's, 1 Missing Grade, 2 Passed courses and 1 CIP.

Example 4: shows a Bachelor of Science in X (2015) graduate, who first registered in the UNCL program in 2015S Term 1. Their UNCL registration spans 8 Winter terms & 1 Summer term between 2015 - 2022W and demonstrates steadily declining academic performance over time. Between 2015S to 2017W, this student attempted 23 courses with 18 Passed and 5 Failed. Between 2018W to 2022W they have attempted 30 courses resulting in 4 Passed, 18 F's, 2 Missing Grades and 6 CIP. In total between 2015S to 2022W this student's record shows 53 courses attempted resulting in 23 F's, 2 Missing Grades, 22 Passed courses and 6 CIP. Courses attempted are primarily in the Faculties of Science and Land and Food Systems.



UBC Calendar Proposal Form

<p>Effective Session: 2023 W Year for Change: 2023</p>	<p>Date: 4 Jan. 2023 Contact Person: K. Lo (Chair, Academic Policy Committee) Email: kin.lo@sauder.ubc.ca</p>
<p>URL: https://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,32,0,0</p> <p>Homepage → Admissions → Classification of Students</p> <p>Proposed Calendar Entry:</p> <p><i>Classification of Students</i></p> <p>.....</p> <p>9. Unclassified. A student enrolled for studies not intended to lead to a particular degree or diploma. Unclassified students should normally have a recognized degree. Admission as an unclassified student does not guarantee that a student will be able to register for any course offered. Admission as an unclassified student does not imply future admission as a regular student. Students with a failed year in a faculty will not be admitted as unclassified until they have discontinued their studies for at least one year. After a second failed year, admission as unclassified will be subject to the approval of the Senate Admissions Committee.</p> <p class="list-item-l1">a. <i>Unclassified Students Applying to Second or Subsequent Undergraduate Degree Programs</i> A faculty may limit the number of credits taken as an Unclassified student that may be counted for credit toward a second or subsequent undergraduate degree. See individual faculty listings and/or contact faculty advisors for details.</p>	<p>URL: https://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,32,0,0</p> <p>Homepage → Admissions → Classification of Students</p> <p>Present Calendar Entry:</p> <p><i>Classification of Students</i></p> <p>.....</p> <p>9. Unclassified. A student enrolled for studies not intended to lead to a particular degree or diploma. Unclassified students should normally have a recognized degree. Admission as an unclassified student does not guarantee that a student will be able to register for any course offered. Admission as an unclassified student does not imply future admission as a regular student. Students with a failed year in a faculty will not be admitted as unclassified until they have discontinued their studies for at least one year. After a second failed year, admission as unclassified will be subject to the approval of the Senate Admissions Committee.</p> <p class="list-item-l1">a. <i>Unclassified Students Applying to Second or Subsequent Undergraduate Degree Programs</i> A faculty may limit the number of credits taken as an Unclassified student that may be counted for credit toward a second or subsequent undergraduate degree. See individual faculty listings and/or contact faculty advisors for details.</p>



THE UNIVERSITY OF BRITISH COLUMBIA

<p>b. <i>Unclassified Students Applying to Graduate Programs</i> Courses taken as an unclassified (or non-degree) student may be approved for transfer toward a graduate program on permission of the department and the Dean of the Faculty of Graduate and Postdoctoral Studies.</p> <p>Consistent with standard transfer credit regulations, students are limited to transferring a maximum of 12 credits or up to 40% of the program credit requirements, whichever is more, toward their master's program. No more than 6 credits of transfer credit may be at the undergraduate level (3**/4**). To be eligible for transfer, a minimum B standing must have been achieved and the course(s) must not have been counted toward the completion of another degree or program.</p> <p>Continuation as an Unclassified Student is normally contingent upon maintaining a sessional average above 50% per winter session.</p>	<p>b. <i>Unclassified Students Applying to Graduate Programs</i> Courses taken as an unclassified (or non-degree) student may be approved for transfer toward a graduate program on permission of the department and the Dean of the Faculty of Graduate and Postdoctoral Studies.</p> <p>Consistent with standard transfer credit regulations, students are limited to transferring a maximum of 12 credits or up to 40% of the program credit requirements, whichever is more, toward their master's program. No more than 6 credits of transfer credit may be at the undergraduate level (3**/4**). To be eligible for transfer, a minimum B standing must have been achieved and the course(s) must not have been counted toward the completion of another degree or program.</p>



THE UNIVERSITY OF BRITISH COLUMBIA

Office of the Senate
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Vancouver, BC V6T 1Z1

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18 January 2023

To: Vancouver Senate

From: Senate Academic Policy and Curriculum Committees

Re: January Joint Academic Policy and Curriculum Proposal (approval)

The Senate Academic Policy Committee and Senate Curriculum Committee have reviewed the materials forwarded to them by the Faculty and encloses the proposal they deem as ready for approval.

The following is recommended to Senate:

Motion: *"That the revised Master of Global Surgical Care, Graduate Certificate in Global Surgical Care and revised courses brought forward by the Faculty of Graduate and Postdoctoral Studies (Medicine) be approved."*

Respectfully submitted,

Dr. Kin Lo
Chair, Senate Academic Policy Committee

Dr. Claudia Krebs
Chair, Senate Curriculum Committee



FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

Medicine

Revised Programs

Master of Global Surgical Care; Graduate Certificate in Global Surgical Care

Revised Courses

SURG 510 (3) Surgical Care in International Health; **SURG 512 (3)** Global Disability: A Surgical Care Mandate; **SURG 514 (3)** Surgical Care in Humanitarian Disaster Response; **SURG 516 (3)** Program Planning and Evaluation in Surgical Care Low Resource Settings; **SURG 517 (3)** Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons; **SURG 518 (3)** Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons; **SURG 542 (3)** Directed Study in Global Surgical Care; **SURG 560 (6)** Global Surgical Care Field Practicum

Proposal

The Branch for Global Surgical Care (BGSC), housed within the Department of Surgery, currently offers the Graduate Certificate and Master in Global Surgical Care programs. The MGSC is an online two-year, 30- credit specialized program designed to prepare surgical care professionals from many disciplines to address surgical challenges and to contribute to finding solutions in low resource settings globally. The first of its kind in terms of online graduate courses with a field-based practicum in a low resource setting facilitates the participation from learners across Canada and around the world. Courses are designed and instructed by global surgical care professionals from different specializations who are experts in their field and together with program alumni, ultimately create a community of surgical care leaders passionate about improving access to surgery.

CHALLENGE

The graduate-level programs at BGSC were designed to meet the learning needs of surgical care clinicians, residents in training and health professionals from many disciplines who wish to incorporate global surgical care into their careers. Delivered fully online and accessible internationally, our programs are available to students all around the world. The diversity of our students includes surgeons and allied health professionals from different disciplines and regional settings. As health care professionals, our students are highly qualified, very busy working professionals who are seeking flexible learning options and who are also used to attaining a certain academic standard.

A numerical grading system is creating an unnecessary and ineffective "hierarchy" amongst students, rather than simply focusing on knowledge acquisition and development of learning. A flexible grading system that does not penalize students who are extremely capable, but who are faced with multiple demands and priorities, is in the interest of sharing knowledge over needing to attain a certain percentage point and would be beneficial to our learners.

RATIONALE

Our programs can be integrated at a comfortable pace by working professionals who are passionate about the field and about making a difference. However, many of our students struggled at times to stay on top of their assignments, on top of managing their personal lives.

Implementing a flexible grading system that is not solely focused on numerical grades would allow students freedom to focus on learning, rather than grade point averages, and would also allow them freedom to push themselves and take on more challenging assignments and projects that broaden their learning. There would also be enhanced benefits to their mental health and wellbeing as busy health care providers balancing multiple priorities. This approach is supported by experience. According to a 2011 literature review (Dunch, 2020), American medical students experienced no difference in academic performance under a pass/fail system than their tier-graded peers. The pass/fail students also experienced greater well-being. In addition, studies have shown that medical student marks do not predict future performance as a resident. Also, the US Medical Licensing System recently decided to adopt a Pass/Fail system and also to evaluate admissions on a more holistic approach. These signs indicate that more holistic evaluations and assessments and more flexible grading policies may be more and more incorporated in the future in higher learning institutions.

The MGSC program is designed to provide established health care professionals with a deep understanding of how to develop and support surgical care in low resource settings and for them to incorporate global surgical care into their careers. The MGSC is focused on gaining practical skills and knowledge that graduates can apply in their careers and is an enhancement to their careers as surgical care professionals. It is a value-added benefit to employers who therefore would not be evaluating or assessing graduates on their grades obtained in this program, but on the practical skills and knowledge they can bring. The MGSC is focused more on knowledge advancement

vs. career advancement which is the key driver for seeking this change to the grading system. There is no PhD program that would follow attainment of MGSC, so a numerical mark is not of relevance for MGSC graduates applications to future programs.

PROPOSAL

We are proposing to implement a pass/fail grading system, with 74% being required to pass for all Graduate Certificate in Global Surgical Care and Master in Global Surgical Care students. The courses this would affect are: SURG 510, SURG 512, SURG 514, SURG 516, SURG 517, SURG 518, SURG 542, and SURG 560. The updated pass/fail grading policy applies to new students entering in 23W or later.

Originally, 70% was selected for the passing grade and to apply it to all students in our programs because it was fairly close to the minimum grade required by UBC for Masters' students, (60-67% for 6 credits of courses and 68% and above for all remaining courses) as per the [UBC Graduate and Postdoctoral Studies Academic Progress and Grading Practices](#). This appears to be a similar range for the minimum grades to pass across Canadian universities for graduate students i.e. University of Regina (70%), University of Ottawa (C+ or 65 – 69), University of Toronto (73 – 76%), Waterloo (70%).

It was discussed when meeting with G+PS, FOM and Senate representatives with an overall consensus among the various stakeholders, that it would be much easier to have the pass/fail set at 74% to align with the B standing requirement in order for students to ladder into the Masters program down the line and not require an exemption to the Transfer Credit Policy for students who are laddering. Therefore, the passing grade of 74% was selected to go forward with in this proposal.

Although this percentage was chosen due to the laddering policy, it will be easiest to have one uniform grade required to pass for all students in our programs under the pass/fail grading system, whether they plan to ladder or not.

Our students have tended to achieve very high grades academically in the past, usually achieving within the high B+ to A (i.e. 76 – 89%) range in their courses. We do not expect that this percentage will be a challenge for the majority of our students to meet. For those students who are having challenges in the courses and are not achieving this, we would work with our course instructors to offer them feedback throughout the course to help them improve their final grade so they achieve a Pass at the end of the course. The new grading policy will be communicated to all new students so they are aware of the expectations for passing upon entering the program. Given this, the program feels that 74% is a reasonable and achievable grade to achieve a Pass in our courses and is in line with the overall academic standards and performance in this graduate program.

When program requirements change, existing students in the program will not be given the option of switching to the new requirements. Existing students will remain on the current numerical or percentage grading system and this will be clearly communicated to all current students in the program that this will be the case until all current students graduate or leave the program.

Students admitted to the program after the changes are approved will be graded on a pass/fail basis with no option for percentage grading. This will also be clearly communicated to any prospective students applying to the program. This change will be communicated to all current and prospective students by email. In addition, the grading policy will be clearly posted on the BGSC website and in the UBC calendar description of our programs.

BGSC consulted with Enrolment Services who advised that if there are current students graded under the percentage system and new students graded under the Pass/Fail system in the same courses, that this can be done. Two different sections would need to be made and this could be done in Scientia and Scheduling Services can help

with this. The creation of separate sections for the different grading would be done until all current students on the percentage based system graduate or leave the program.

Our instructors and learners feel changing to a Pass/Fail grading system in our graduate SURG courses would be of benefit to the learners and to the global surgical care field as a whole. When surveyed, many of our learners stated they would prefer a pass/fail grading system; they are not as concerned with receiving a letter grade as are students in more research-based fields who wish to go on to further doctoral or postdoctoral studies. The MGSC is not a pathway taken to a PhD program, for instance.

In order to determine the preferences of students, BGSC conducted an anonymous online survey of our past and current students. The majority, 18 out of 27 respondents (66.67%) responded to implement a pass/fall system, while 9 out of 27 respondents (33.33%) responded to keep the current grading system (letter grade and percentage). The results of the survey are below.

- | | |
|---|--|
| 1 | Keep current grading system (letter grade & percentage) 33.33% 9 |
| 2 | Implement a Pass/Fail grading system 66.67% 18 |
| 3 | Use a GPA (grade point average) on a 4.0 scale 0.00% 0 |
| 4 | Other. Please explain in comment field below. 0.00% 0 |

In regards to other programs at UBC that may be affected, BGSC has consulted other programs and investigated the implications of the change. Please see the unit consultations included in this proposal. There were no concerns expressed by any of the units consulted about this change.

Concerns and/or challenges that may be encountered are that some students may be applying for further education or may be applying to different kinds of degrees after completing the MGSC. This could be mitigated by BGSC providing a reference letter for any student that requested it who is applying for further studies, providing clarity on their academic accomplishments while completing the MGSC. The majority of students in our program expressed that they are not concerned about how this will affect future academic applications and are more concerned about learning the necessary knowledge and skills that they can apply into global surgical care projects in the future.

In theory, this change should not impact bursaries as grading systems are not relevant for bursaries. However, according to communication from Brendan Morey, Assistant Dean, Student Administration and Awards at G+PS, moving to a pass/fail may be more likely to be a disadvantage for students applying for competitive awards. Students with pass/fail grades would likely still be considered eligible for funding opportunities (i.e., their pass/fail grades would not cause them to be found to be ineligible), but having pass/fail grades may bias unfavourably the adjudication of their application as follows: (i) adjudicators may consider a pass/fail course or pass/fail program to be less academically rigorous than a program that provides numerical or letter grades and (ii) pass/fail grades provide less information than numerical or letter grades to adjudicators, and therefore introduces more uncertainty / risk for adjudicators- who tend to be somewhat risk-averse when deciding which students to offer funding to. That is to say, adjudicators prefer to offer funds to students with a proven track record and/or demonstrated potential, and pass/fail grades provide less information for adjudicators to be confident that award funding would be a good investment. BGSC would provide a written letter or reference attesting to the students' academic performance to any institution or unit requesting it or upon request by the student. However, in the end, this may not be a significant consideration in the specific case of the MGSC program. As the MGSC is classified as a high-cost recovery program, our students are not eligible for most awards and scholarships offered through UBC, unfortunately.

Thank you for your time in reviewing our request. We look forward to hearing further on the steps required to submit a proposal to the Senate in the hopes to implement this change for the 2023/24 academic year starting in September.

References and Resources Consulted

Minimum Pass Requirements at Canadian Universities

<https://www.uregina.ca/gradstudies/current-students/grad-calendar/grading-system.html>
<https://www2.uottawa.ca/about-us/policies-regulations/academic-regulation-i-10-grading-system>
<https://www.physics.utoronto.ca/graduate/current-students/coursesfaq/grading-graduate-courses/>
<https://uwaterloo.ca/graduate-studies-academic-calendar/general-information-and-regulations/grades- and-grading>

US Medical Licensing System

Neville AL, Smith BR, de Virgilio C. USMLE Step 1 Scoring System Change to Pass/Fail—An Opportunity for Change. *JAMA Surg.* 2020;155(12):1093–1094. doi:10.1001/jamasurg.2020.2836

Medical School Grades as Predictor of Resident Success

Mark J. Burish, Carolyn A. Fredericks, John W. Engstrom, Vicky L. Tateo, S. Andrew Josephson, Predicting success: What medical student measures predict resident performance in neurology?, *Clinical Neurology and Neurosurgery*, Volume 135, 2015, Pages 69-72, ISSN 0303-8467,
<https://doi.org/10.1016/j.clineuro.2015.05.007>.

Stohl, Hindi & Hueppchen, Nancy & Bienstock, Jessica. (2010). Can Medical School Performance Predict Residency Performance? Resident Selection and Predictors of Successful Performance in Obstetrics and Gynecology. *Journal of graduate medical education*. 2. 322-6. 10.4300/JGME-D-09-00101.1.

General References on Moving Away from Percentage or Letter Based Grading Systems

Macleans *It's time for Canadian universities to go gradeless*, by Jonah Dunch December 2, 2020. <https://www.macleans.ca/education/its-time-for-canadian-universities-to-go-gradeless/>

University Affairs *Universities Differ On Whether A Pass-Fail Grading Scheme Should be Optional* by Nathan Fung, April 1, 2020 <https://www.universityaffairs.ca/news/news-article/universities-differ-on-whether-a-pass-fail-grading-scheme-should-be-optional/>

Presentation by Clarissa Sorenson-Unruh, Chemistry Instructor, Central New Mexico Community College; at UBC CTLT Spring Institute Workshop Ungrading at UBC: A Paradigm Shift in Teaching and Learning
https://docs.google.com/presentation/d/1HNVZH_zzgH68PKexAqt1_DlgsOil_fxMOq9xsYshL0I/edit#slide=id.p_7

UBC CTLT Spring Institute Wiki, Workshop on Workshop Ungrading at UBC: A Paradigm Shift in Teaching and Learning https://wiki.ubc.ca/Documentation:CTLT_programs/CTLT_Institute/2021_Spring

Blog on Ungrading at UBC by Firas Moosvi, Lecturer, Department of Computer Science, Mathematics, Physics and Statistics
<https://firas.moosvi.com/projects/ungrading>



UBC Curriculum Proposal Form

Change to Course or Program

Category: 1

<p>Faculty: Medicine Department: Surgery Faculty Approval Date: July 12 2022 Effective Session (W or S): W Effective Academic Year: 2023</p>	<p>Date: May 18 2022 Contact Person: Dr. Brian D. Westerberg Phone: 604-875-5372 Email: BWesterberg@providencehealth.bc.ca global.surgery@ubc.ca</p>
<p>Proposed Calendar Entry: Global Surgical Care</p> <p>Program Overview The Master of Global Surgical Care (MGSC) is a program within the Faculty of Medicine. This online two-year, 30 credit specialized program is designed to prepare surgical care professionals from many disciplines to address surgical challenges and contribute to finding solutions in low resource settings globally.</p> <p>The program provides a strong foundation for present and future global surgical care professionals by developing knowledge and skills in the interpretation and use of published experience and research, balanced with applied learning in low resource settings. Students will spend four to eight weeks in an underserved location globally, producing practical “on-the-ground” skills. The location of the placement is determined by the student in consultation with a program advisor.</p> <p>A blended model of practicum based learning and online teaching methods facilitate the participation of candidates from across Canada and around the world.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,204,828,1676</p> <p>Present Calendar Entry: Global Surgical Care</p> <p>Program Overview The Master of Global Surgical Care (MGSC) is a program within the Faculty of Medicine. This online two-year, 30 credit specialized program is designed to prepare surgical care professionals from many disciplines to address surgical challenges and contribute to finding solutions in low resource settings globally.</p> <p>The program provides a strong foundation for present and future global surgical care professionals by developing knowledge and skills in the interpretation and use of published experience and research, balanced with applied learning in low resource settings. Students will spend four to eight weeks in an underserved location globally, producing practical “on-the-ground” skills. The location of the placement is determined by the student in consultation with a program advisor.</p> <p>A blended model of practicum based learning and online teaching methods facilitate the participation of candidates from across Canada and around the world.</p>
<p>Admission Requirements</p>	<p>Admission Requirements</p>



<p>Applicants must meet <u>minimum admission requirements</u> established by the Faculty of Graduate and Postdoctoral Studies.</p> <p>Applicants should: (a) hold a health-care-related degree such as Doctor of Medicine (MD), Nursing (BSN), Midwifery (BMW), etc.; and (b) have been involved or specifically plan to be involved in surgical care programs in underserved regions globally, whether clinically, educationally, administratively or in research.</p> <p>For complete application and admission information please see the MGSC program's <u>website</u>.</p> <p>Applicants who do not meet the academic requirements stated above, but who have had other significant formal training, relevant professional experience, and/or otherwise possess demonstrable knowledge or expertise that would prepare them adequately for successful study in the graduate program, may be granted admission on the recommendation of the Graduate Advisor for MGSC and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Applicants from a university outside Canada in which English is not the primary language of instruction must present evidence of English language proficiency prior to being extended an offer of admission. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding English Language Proficiency Requirements.</p> <p>Applicants who do not meet English language proficiency requirements may be granted admission on the recommendation of the Graduate Advisor for MGSC and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Academic Progress Requirement For students who begin the MGSC in September 2023 or later, all SURG courses in</p>	<p>Applicants must meet minimum admission requirements established by the Faculty of Graduate and Postdoctoral Studies.</p> <p>Applicants should: (a) hold a health-care-related degree such as Doctor of Medicine (MD), Nursing (BSN), Midwifery (BMW), etc.; and (b) have been involved or specifically plan to be involved in surgical care programs in underserved regions globally, whether clinically, educationally, administratively or in research.</p> <p>For complete application and admission information please see the MGSC program's website.</p> <p>Applicants who do not meet the academic requirements stated above, but who have had other significant formal training, relevant professional experience, and/or otherwise possess demonstrable knowledge or expertise that would prepare them adequately for successful study in the graduate program, may be granted admission on the recommendation of the Director of the Branch for International Surgical Care and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Applicants from a university outside Canada in which English is not the primary language of instruction must present evidence of English language proficiency prior to being extended an offer of admission. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding English Language Proficiency Requirements.</p> <p>Applicants who do not meet English language proficiency requirements may be granted admission on the recommendation of the Director of the Branch for International Surgical Care and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Transfer Credit The transfer credit policy is outlined by the</p>
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<p>the MGSC are graded on a pass/fail basis with 74% being required to pass. Students who began the MGSC prior to September 2023 will remain on a percentage grading system.</p>	<p>Faculty of Graduate and Postdoctoral Studies. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding Transfer Credits.</p>
<p>Transfer Credit The transfer credit policy is outlined by the Faculty of Graduate and Postdoctoral Studies. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding Transfer Credits.</p>	<p>Program Requirements Students will be required to complete 30 credits of SURG courses which include a 6 credit Global Surgical Care Field Practicum: SURG 510 (3) SURG 512 (3) SURG 514 (3) SURG 516 (3) SURG 517 (3) SURG 518 (3) SURG 542 (3) SURG 560 (6) Electives (3) Approved by the Program Director</p>
<p>Program Requirements Students will be required to complete 30 credits of SURG courses which include a 6 credit Global Surgical Care Field Practicum: SURG 510 (3) SURG 512 (3) SURG 514 (3) SURG 516 (3) SURG 517 (3) SURG 518 (3) SURG 542 (3) SURG 560 (6) Electives (3) Approved by the Program Director</p>	<p>Canadian Low Resource Settings Stream The MGSC Canadian Low Resource Settings Stream is an interdisciplinary specialized stream. Students can choose to complete the MGSC with an intense focus on the unique issues affecting surgical care in rural and remote low resource settings in Canada.</p>
<p>Canadian Low Resource Settings Stream The MGSC Canadian Low Resource Settings Stream is an interdisciplinary specialized stream. Students can choose to complete the MGSC with an intense focus on the unique issues affecting surgical care in rural and remote low resource settings in Canada.</p> <p>In order to complete the MGSC Canadian Low Resource Settings Stream, students must declare their interest in completing the stream to the Graduate Advisor for MGSC upon entry into the program and must complete the following requirements:</p> <p>SURG 560 (6) – Global Surgical Care Field Practicum must be completed in Canada</p> <p>SURG 542 (3) – Topic selected for Directed Study in Global Surgical Care must be closely connected to Canada and approved by the</p>	<p>Canadian Low Resource Settings Stream The MGSC Canadian Low Resource Settings Stream is an interdisciplinary specialized stream. Students can choose to complete the MGSC with an intense focus on the unique issues affecting surgical care in rural and remote low resource settings in Canada.</p> <p>In order to complete the MGSC Canadian Low Resource Settings Stream, students must declare their interest in completing the stream to the Program Director upon entry into the program and must complete the following requirements:</p> <p>SURG 560 (6) – Global Surgical Care Field Practicum must be completed in Canada</p> <p>SURG 542 (3) – Topic selected for Directed Study in Global Surgical Care must be closely connected to Canada and approved</p>



<p>Graduate Advisor for MGSC as an appropriate topic for the Canadian Low Resource Settings Stream</p> <p>Satisfactory progress as defined by the Faculty of Graduate and Postdoctoral Studies for Master's students must be maintained.</p> <p>Students must complete their requirements within 5 years of starting the program. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding Academic Progress.</p> <p>Contact Information</p> <p>Branch for Global Surgical Care, Department of Surgery Room 11135 – 2755 Laurel Street, Diamond Health Care Centre Vancouver, BC, Canada V5Z 1M9 Tel: 604.875.4111, ext. 23110 Email: global.surgery@ubc.ca Web: http://globalsurgery.med.ubc.ca/</p>	<p>by the Program Director as an appropriate topic for the Canadian Low Resource Settings Stream</p> <p>Satisfactory progress as defined by the Faculty of Graduate and Postdoctoral Studies for Master's students must be maintained.</p> <p>Students must complete their requirements within 5 years of starting the program. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding Academic Progress.</p> <p>Contact Information</p> <p>Branch of International Surgical Care, Department of Surgery Room 11135 – 2755 Laurel Street, Diamond Health Care Centre Vancouver, BC, Canada V5Z 1M9 Tel: 604.875.4111, ext. 23110 Email: surgery.international@ubc.ca Web: http://internationalsurgery.med.ubc.ca</p>
	<p>Type of Action: New Grading Policy, Updating unit name, Update to note program directors new title, Contact details updated.</p> <p>Rationale for Proposed Change:</p> <p>Our programs can be integrated at a comfortable pace by working professionals who are passionate about the field and about making a difference. However, many of our students struggled at times to stay on top of their assignments on top of managing their personal lives.</p> <p>Implementing a flexible grading system that is not solely focused on numerical grades would allow students freedom to focus on learning, rather than grade point averages, and would also allow them freedom to push themselves and take on more challenging assignments and projects that broaden their learning. There would also be enhanced</p>



	<p>benefits to their mental health and wellbeing as busy health care providers balancing multiple priorities.</p> <p>The MGSC program is designed to provide established health care professionals with a deep understanding of how to develop and support surgical care in low resource settings and for them to incorporate global surgical care into their careers. The MGSC is focused on gaining practical skills and knowledge that graduates can apply in their careers and is an enhancement to their careers as surgical care professionals. It is a value-added benefit to employers who therefore would not be evaluating or assessing graduates on their grades obtained in this program, but on the practical skills and knowledge they can bring. The MGSC is focused more on knowledge advancement vs. career advancement which is the key driver for seeking this change to the grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.</p> <p>X Pass/Fail or 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>
<p>Proposed Calendar Entry: Graduate Certificate in Global Surgical Care</p> <p>This is an online program that aims to prepare surgical care professionals from many disciplines to address surgical challenges and contribute to finding solutions in low resource settings globally.</p> <p>Admission Requirements Candidates must meet <u>minimum</u></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,209,965,0</p> <p>Present Calendar Entry: Graduate Certificate in Global Surgical Care</p> <p>This is an online program that aims to prepare surgical care professionals from many disciplines to address surgical challenges and contribute to finding solutions in low resource settings globally.</p> <p>Admission Requirements Candidates must meet <u>minimum</u></p>



<p><u>admission requirements</u> established by the Faculty of Graduate and Post-Doctoral Studies.</p> <p>Applicants should: (a) hold a health-care-related degree such as Doctor of Medicine (MD), Nursing (BSN), Midwifery (BMW) etc.; and (b) have been involved or specifically plan to be involved in surgical care programs in underserved regions globally, whether clinically, educationally, administratively or in research.</p> <p>For complete application and admission information please see the GCGSC program's <u>website</u>.</p> <p>Applicants who do not meet the academic requirements stated above, but who have had other significant formal training, relevant professional experience, and/or otherwise possess demonstrable knowledge or expertise that would prepare them adequately for successful study in the graduate program, may be granted admission on the recommendation of the Graduate Advisor for GCGSC and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Applicants from a university outside Canada in which English is not the primary language of instruction must present evidence of English language proficiency prior to being extended an offer of admission. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding English Language Proficiency Requirements.</p> <p>Applicants who do not meet English language proficiency requirements may be granted admission on the recommendation of the Graduate Advisor for GCGSC and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Academic Progress Requirement</p> <p>For students who begin the GCGSC in September 2023 or later, all SURG courses in</p>	<p><u>admission requirements</u> established by the Faculty of Graduate and Post-Doctoral Studies.</p> <p>Applicants should: (a) hold a health-care-related degree such as Doctor of Medicine (MD), Nursing (BSN), Midwifery (BMW) etc.; and (b) have been involved or specifically plan to be involved in surgical care programs in underserved regions globally, whether clinically, educationally, administratively or in research.</p> <p>For complete application and admission information please see the GCGSC program's <u>website</u>.</p> <p>Applicants who do not meet the academic requirements stated above, but who have had other significant formal training, relevant professional experience, and/or otherwise possess demonstrable knowledge or expertise that would prepare them adequately for successful study in the graduate program, may be granted admission on the recommendation of the Director of the Branch for International Surgical Care and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Applicants from a university outside Canada in which English is not the primary language of instruction must present evidence of English language proficiency prior to being extended an offer of admission. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding English Language Proficiency Requirements.</p> <p>Applicants who do not meet English language proficiency requirements may be granted admission on the recommendation of the Director of the Branch for International Surgical Care and the approval of the Dean of Graduate and Postdoctoral Studies.</p> <p>Certificate Requirements</p> <p>All students must complete the following four</p>
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the MGSC are graded on a pass/fail basis with 74% being required to pass. Students who began the GCGSC prior to September 2023 will remain on a percentage grading system.

Certificate Requirements

All students must complete the following four courses (12 credits): SURG 510 (3); SURG 512 (3); SURG 514 (3); SURG 516 (3). Satisfactory progress as defined by the Faculty of Graduate and Postdoctoral Studies for Master's students must be maintained.

Students must complete their requirements within 5 years of starting the program. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding [Academic Progress](#)

courses (12 credits): SURG 510 (3); SURG 512 (3); SURG 514 (3); SURG 516 (3). Satisfactory progress as defined by the Faculty of Graduate and Postdoctoral Studies for Master's students must be maintained.

Students must complete their requirements within 5 years of starting the program. For more information, refer to the Faculty of Graduate and Postdoctoral Studies' entry in the Academic Calendar regarding [Academic Progress](#)

Type of Action:

New Grading Policy, Updating unit name, Update to note program directors new title, Contact details updated.

The updated pass/fail grading policy applies to new students entering in 23W or later.

X Pass/Fail or 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.)



UBC Curriculum Proposal Form

Change to Course or Program

Category: 1

Faculty: Medicine Department: Surgery Faculty Approval Date: July 12 2022 Effective Session (W or S): W Effective Academic Year: 2023	Date: May 18 2022 Contact Person: Dr. Brian D. Westerberg Phone: 604-875-5372 Email: BWesterberg@providencehealth.bc.ca global.surgery@ubc.ca
<p>Proposed Calendar Entry:</p> <p>SURG 510 (3) Surgical Care in International Health</p> <p>Foundation to international surgery. The discussion of the global burden of unmet surgical needs and a professional response in low and middle income regions of the world. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG</p> <p>Present Calendar Entry:</p> <p>SURG 510 (3) Surgical Care in International Health</p> <p>Foundation to international surgery. The discussion of the global burden of unmet surgical needs and a professional response in low and middle income regions of the world. <i>This course is not eligible for Credit/D/Fail grading.</i></p> <p>Type of Action: Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.</p> <p>Rationale for Proposed Change: See attached proposal.</p> <p>X Pass/Fail or 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>
<p>Proposed Calendar Entry:</p> <p>SURG 512 (3) Global Disability: A Surgical Care Mandate</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG</p> <p>Present Calendar Entry:</p> <p>SURG 512 (3) Global Disability: A Surgical Care Mandate</p>



<p>Online course. Relationship of surgery to preventing and treating disabling impairments in lower income countries. Focus will be on sensory impairments (blindness and deafness) and physical impairment. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>Online course. Relationship of surgery to preventing and treating disabling impairments in lower income countries. Focus will be on sensory impairments (blindness and deafness) and physical impairment. <i>This course is not eligible for Credit/D/Fail grading.</i></p> <p>Type of Action: Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.</p> <p>Rationale for Proposed Change: See attached proposal.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><input checked="" type="checkbox"/> Pass/Fail or grading</td><td style="width: 70%;">Honours/Pass/Fail</td></tr> <tr> <td colspan="2">(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.)</td></tr> </table>	<input checked="" type="checkbox"/> Pass/Fail or grading	Honours/Pass/Fail	(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.)	
<input checked="" type="checkbox"/> Pass/Fail or grading	Honours/Pass/Fail				
(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>Proposed Calendar Entry:</p> <p>SURG 514 (3) Surgical Care in Humanitarian Disaster Response</p> <p>Examines response to humanitarian disasters. Includes case models of surgical care responses and strategies to move from relief to recovery. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG</p> <p>Present Calendar Entry:</p> <p>SURG 514 (3) Surgical Care in Humanitarian Disaster Response</p> <p>Examines response to humanitarian disasters. Includes case models of surgical care responses and strategies to move from relief to recovery. <i>This course is not eligible for Credit/D/Fail grading.</i></p> <p>Type of Action: Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.</p> <p>Rationale for Proposed Change: See attached proposal.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><input checked="" type="checkbox"/> Pass/Fail or grading</td><td style="width: 70%;">Honours/Pass/Fail</td></tr> </table>	<input checked="" type="checkbox"/> Pass/Fail or grading	Honours/Pass/Fail		
<input checked="" type="checkbox"/> Pass/Fail or grading	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.)
Proposed Calendar Entry: SURG 516 (3) Program Planning and Evaluation in Surgical Care Low Resource Settings Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in various low resource contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SPPH 540 or SURG 516. <i>This course is not eligible for Credit/D/Fail grading.</i> <i>Prerequisite:</i> SURG 510.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG Present Calendar Entry: SURG 516 (3) Program Planning and Evaluation in Surgical Care Low Resource Settings Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in various low resource contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SPPH 540 or SURG 516. <i>This course is not eligible for Credit/D/Fail grading.</i> <i>Prerequisite:</i> SURG 510.
Type of Action: Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.	Rationale for Proposed Change: See attached proposal.
<input checked="" type="checkbox"/> Pass/Fail or 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.)	Honours/Pass/Fail (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.)
Proposed Calendar Entry:	Present Calendar Entry:



<p>SURG 517 (3) Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons</p> <p>Clinical research methods, research process, systematic reviews, quality improvement and assurance, and technology evaluation with an emphasis on research in global surgical care. Credit will be granted for only one of SURG 517 or SPPH 517. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>SURG 517 (3) Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons</p> <p>Clinical research methods, research process, systematic reviews, quality improvement and assurance, and technology evaluation with an emphasis on research in global surgical care. Credit will be granted for only one of SURG 517 or SPPH 517. <i>This course is not eligible for Credit/D/Fail grading.</i></p> <p>Type of Action: Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.</p> <p>Rationale for Proposed Change: See attached proposal.</p> <p>X Pass/Fail or 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>
<p>Proposed Calendar Entry:</p> <p>SURG 518 (3) Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons</p> <p>Critiques the current and historical provision of surgical care services to indigenous communities in Canada and globally. Examines challenges and opportunities confronting both the clinician and the service delivery system, embracing lessons learned from these communities. <i>This course is not eligible for Credit/D/Fail grading.</i></p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG</p> <p>Present Calendar Entry:</p> <p>SURG 518 (3) Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons</p> <p>Critiques the current and historical provision of surgical care services to indigenous communities in Canada and globally. Examines challenges and opportunities confronting both the clinician and the service delivery system, embracing lessons learned from these communities. <i>This course is not eligible for Credit/D/Fail grading.</i></p>



Prerequisite: SURG 510.

Prerequisite: SURG 510.

Type of Action:

Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.

Rationale for Proposed Change:

See attached proposal.

Pass/Fail or 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.)

Proposed Calendar Entry:

SURG 542 (3) Directed Study in Global Surgical Care

Literature review of a global surgical care topic chosen in consultation with an advisor. Includes analysis of existing literature and research, and identification of gaps in current knowledge. *This course is not eligible for Credit/D/Fail grading.*

Prerequisite: All of SURG 510, SURG 512, SURG 514, SURG 516.

Corequisite: SURG 517.

URL:

<http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG>

Present Calendar Entry:

SURG 542 (3) Directed Study in Global Surgical Care

Literature review of a global surgical care topic chosen in consultation with an advisor. Includes analysis of existing literature and research, and identification of gaps in current knowledge. *This course is not eligible for Credit/D/Fail grading.*

Prerequisite: All of SURG 510, SURG 512, SURG 514, SURG 516.

Corequisite: SURG 517.

Type of Action:

Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.

Rationale for Proposed Change:

See attached proposal.

Pass/Fail or Honours/Pass/Fail grading



	<p>(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>
<p>Proposed Calendar Entry:</p> <p>SURG 560 (6) Global Surgical Care Field Practicum</p> <p>Course with a four to eight week on-site field placement. Proposal development, implementation and high-level written report of a surgical care field practicum in an underserved location globally, producing practical "on-the-ground" skills. <i>This course is not eligible for Credit/D/Fail grading.</i></p> <p><i>Prerequisite:</i> All of SURG 510, SURG 512, SURG 514, SURG 516.</p> <p><i>Corequisite:</i> SURG 517.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=code&code=SURG</p> <p>Present Calendar Entry:</p> <p>SURG 560 (6) Global Surgical Care Field Practicum</p> <p>Course with a four to eight week on-site field placement. Proposal development, implementation and high-level written report of a surgical care field practicum in an underserved location globally, producing practical "on-the-ground" skills. <i>This course is not eligible for Credit/D/Fail grading.</i></p> <p><i>Prerequisite:</i> All of SURG 510, SURG 512, SURG 514, SURG 516.</p> <p><i>Corequisite:</i> SURG 517.</p> <p>Type of Action: Change grading system. The updated pass/fail grading policy applies to new students entering in 23W or later.</p> <p>Rationale for Proposed Change: See attached proposal.</p> <p>X Pass/Fail or Honours/Pass/Fail grading</p> <p>(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>



THE UNIVERSITY OF BRITISH COLUMBIA

Office of the Senate
Brock Hall | 2016 - 1874 East Mall
Vancouver, BC V6T 1Z1

Phone 604 822 5239
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18 January 2023

To: Vancouver Senate

From: Senate Admissions Committee

Re: Doctor of Medicine (MD) – Revised Enrolment Targets

Doctor of Medicine (MD) – Revised Enrolment Targets (approval)

The Committee has reviewed and recommends to Senate for approval revised enrolment targets for the Doctor of Medicine (MD) program. The expansion will add 18 seats (306 total) for the 2023 Winter intake. An additional 22 seats (328 total) will be added for 2024 Winter intake and beyond.

Motion: That the Senate approve an increase in enrolment targets for the Doctor of Medicine (MD) undergraduate program, from 288 to 306, for entry to the 2023 Winter Session, and an additional increase, from 306 to 328, for entry to the 2024 Winter Session and beyond.

Respectfully submitted,

Prof. Carol Jaeger
Chair, Senate Admissions Committee



Memo

Date: December 21, 2022

To: UBC Senate Committee

From: Dr. Dermot Kelleher, Dean, Faculty of Medicine
Dr. Roger Wong, Vice Dean, Education, Faculty of Medicine

Re: MD Undergraduate Program Expansion

In light of the recent announcement by the Government of British Columbia to expand the positions in the MD Undergraduate Program in a phased approach, MD Admissions, in consultation with the Regional Associate Deans, Island, North, South, and Vancouver-Fraser would like to propose the following time-phased implementation plan:

MD Class of 2027 (Admission Spring 2023): Proposed Total Expansion 18 positions for a class size of 306

4 positions (total 36)- Northern Medical Program
4 positions (total 36)- Island Medical Program
4 positions (total 36)- Southern Medical Program
6 positions (total 198)- Vancouver Fraser Medical Program

MD Class of 2028 (Admission Spring 2024) and beyond: Proposed Total Expansion 22 additional positions (total of 40 positions steady state) for an annual class size of 328

4 additional positions (total 40)- Northern Medical Program
4 additional positions (total 40)- Island Medical Program
4 additional positions (total 40)- Southern Medical Program
10 additional positions (total 208)- Vancouver Fraser Medical Program

These positions will be filled through the MD Admissions pathways: Northern and Rural MD Admissions Pathway, MD/PhD Admissions Pathway, Indigenous MD Admissions Pathway, Black Student MD Admissions Pathway, and General MD Admissions Pathway, as appropriate.



UBC Curriculum Proposal Form

Change to Course or Program

Category: (Sui Generous)

Faculty: Medicine Department: MD Admissions Faculty Approval Date: Nov 8 2022 Effective Session (W or S): W Effective Academic Year: 2023	Date: October 6 2022 Contact Person: Catherine Macala Phone: 604-773-5947 Email: catherine.macala@ubc.ca
<p>Proposed Calendar Entry: (40 word limit.)</p> <p>Selection Process</p> <p>“The annual enrolment and class size are limited, with the current entering class size as indicated on the official UBC Faculty of Medicine MD Admissions website. The number of qualified applicants significantly exceeds the number of available positions. Therefore, not every qualified applicant will be offered admission. Admission is based on a selection process which strives to enrol the most highly qualified applicants who will be evaluated on the following criteria:”</p>	<p>URL: https://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,209,374,340</p> <p>Present Calendar Entry:</p> <p>Selection Process</p> <p>The entering class is limited to 288 full-time students. The number of qualified applicants significantly exceeds the number of available positions. Therefore, not every qualified applicant will be offered admission. Admission is based on a selection process which strives to enrol the most highly qualified applicants who will be evaluated on the following criteria:</p> <p>Type of Action:</p> <p>Change in wording to reflect a change in the enrolment of MD students across the Faculty of Medicine’s distributed program. It has also been updated to reflect language similar to that used by other distributed programs and other professional programs.</p> <p>Rationale for Proposed Change:</p> <p>The limit to the number of government funded MD Program positions is set to increase in phases, with a maximum increase of 40 positions distributed across the medical program sites (Northern Medical Program, Island Medical Program, Southern Medical Program, and Vancouver Fraser Medical Program). This change in enrolment should be reflected appropriately in the calendar. Additionally, upon review and consultation and</p>



	<p>in alignment with the practices of other distributed health professions programs, and other professional programs within the university, such as Law and Education, the calendar entry has been updated to exclude specific reference to enrolment numbers.</p>
<p>Proposed Calendar Entry: (40 word limit.)</p> <p>UBC Faculty of Medicine Undergraduate Distributed Program</p> <p>The UBC Faculty of Medicine offers a distributed program offered at geographically separated campuses. These include the Northern Medical Program located at the University of Northern British Columbia, the Island Medical Program located at the University of Victoria, the Southern Medical Program at UBC Okanagan, and the Vancouver Fraser Medical Program located at UBC Vancouver.</p> <p>Vancouver Fraser Medical Program students accepted into the VFMP-Fraser Medical Cohort Year 3 Clinical Clerkship Program will have the opportunity to conduct their clinical training in year 3 in the Fraser Health Region. The remaining Vancouver Fraser Medical students may also have the opportunity to spend some weeks of their clinical training in the Fraser Health Region, but not the entire year. Applicants will be able to indicate their interest in committing to the Fraser Cohort at the same time they list their site preferences. Offers of admission will be both site specific and year 3 training location specific for Vancouver Fraser Medical students.</p>	<p>URL: https://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,209,374,340</p> <p>Present Calendar Entry:</p> <p>UBC Faculty of Medicine Undergraduate Distributed Program</p> <p>The UBC Faculty of Medicine offers a distributed program involving 288 students at geographically separated campuses. 32 students will be in the Northern Medical Program located at the University of Northern British Columbia, 32 will be in the Island Medical Program located at the University of Victoria, and another 32 students will be in the Southern Medical Program at UBC Okanagan. The remaining 192 students will be in the Vancouver Fraser Medical Program located at UBC Vancouver.</p> <p>Students accepted into the VFMP-Fraser Medical Cohort Year 3 Clinical Clerkship Program will have the opportunity to conduct their clinical training in year 3 in the Fraser Health Region. This opportunity to conduct all 48 weeks of year 3 will be provided to 32 students. The remaining 160 Vancouver Fraser Medical students may also have the opportunity to spend some weeks of their clinical training in the Fraser Health Region, but not the entire year. Applicants will be able to indicate their interest in committing to the Fraser Cohort (all 48 weeks of year 3) at the same time they list their site preferences. Offers of admission will be both site specific and year 3 training location specific for Vancouver Fraser Medical students.</p>



	<p>Type of Action:</p> <ul style="list-style-type: none">• Change in wording to reflect a change in the enrolment of MD students across the Faculty of Medicine's distributed program. It has also been updated to reflect language similar to that used by other distributed programs and other professional programs.• Remove language referencing 48 weeks of clinical training in the Fraser Health region for Fraser Cohort students <p>Rationale:</p> <p>The limit to the number of government funded MD Program positions is set to increase in phases, with a maximum increase of 40 positions distributed across the medical program sites (Northern Medical Program, Island Medical Program, Southern Medical Program, and Vancouver Fraser Medical Program). This change in enrolment should be reflected appropriately in the calendar. Additionally, upon review and consultation and in alignment with the practices of other distributed health professions programs, and other professional programs within the university, such as Law and Education, the calendar entry has been updated to exclude specific reference to enrolment numbers. Thirdly, wording for the Fraser Cohort has been updated to remove reference to all 48 weeks in year 3 as there is a possibility that rural family practice rotations will occur outside of the Fraser Health Region.</p>
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16 January 2023

To: Senate

From: Nominating Committee

Re: President's Advisory Committee for the Extension of the Vice-President, Students

Under Policy AP-14: Appointment and Extension of Appointment of Administrative Vice-Presidents, the Senate is responsible for the selection of one Faculty member from UBC Vancouver to serve on the President's Advisory Committee for the Extension of the Vice-President, Students.

A call for nominations was issued to all eligible faculty member at UBC Vancouver. Following consideration of a statements of interest, the Nominating Committee is pleased to recommend the appointment of Dr. James Charbonneau (Associate Dean, Students | Faculty of Science) to the advisory committee.

Motion: *That Senate appoint Dr. James Charbonneau to the President's Advisory Committee for the Extension of the Vice-President, Students.*

Respectfully submitted,

Dr. Paul Harrison, Chair
Senate Nominating Committee



Office of the Vice-President Research & Innovation

ANNUAL REPORT
2021/22

We acknowledge that UBC's campuses are situated within the traditional territories of the xʷməθkʷəy̓əm (Musqueam), Squamish and Tsleil-Waututh, and in the traditional, ancestral, unceded territory of the Syilx Okanagan Nation and their peoples. UBC's activities take place on Indigenous lands throughout British Columbia and beyond.



Office of the Vice-President Research & Innovation

The Vice-President, Research and Innovation portfolio is grateful to work collaboratively with units, departments, schools and Faculties across our campuses and affiliated health-authority research institutes in delivering support for the UBC research community.

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About the VPRI

The University of British Columbia is one of the world's top-40 research universities, recognized for its research excellence and the impact of this research on local, national and global communities. The Vice-President Research and Innovation (VPRI) portfolio works with colleagues across the university's campuses and affiliated health-authority research institutes to provide support throughout the research life cycle. This support includes identifying, securing and managing funding; supporting the ethical conduct of research; providing shared research platforms; celebrating research success; and helping researchers and their partners to generate social and economic impacts.

We are guided by the needs of UBC researchers and by UBC's strategic plan, *Shaping UBC's Next Century*. We respond directly to the strategies associated with the core area of research excellence and are inspired by the plan's themes of innovation, collaboration and inclusion.

To meet the plan's vision, our portfolio works to enhance UBC's research capacity and infrastructure and promotes collaboration that builds on UBC's recognized disciplinary strengths. These strengths span business, creative and performing arts, engineering, health, humanities, law, life sciences, physical sciences and social sciences. Through the work of Innovation UBC, we help UBC researchers and scholars connect with partners to generate transformative new products, treatments and ventures, and contribute to advances in practice and policy that improve lives in British Columbia and around the world.

UBC VPRI Executive Team

Dr. Gail C. Murphy, Vice-President, Research & Innovation

Dr. Phil Barker, Vice-Principal, Research & Innovation (UBCO) and Associate Vice-President, Research & Innovation

Dr. Matthew Evenden, Associate Vice-President, Research & Innovation

Dr. Rachel Fernandez, Associate Vice-President, Research & Innovation

Dr. Paul van Donkelaar, Associate Vice-Principal, Research (UBCO)

Vice-President's Message

Professor Gail C. Murphy

2021/22 was another year full of adapting and adjusting as the COVID-19 pandemic eased and surged in cycles and local climate-related emergencies affected research and scholarly activities in uneven ways. Throughout this, our researchers continually held up UBC's reputation as a top-40 research institution, making significant contributions to addressing the pandemic, the ongoing climate emergency, and in disciplines spanning business, creative and performing arts, engineering, health, humanities, law, life sciences, the physical sciences and the social sciences.

Our researchers attracted record levels of funding, as well as recognition through major national and international honours in areas such as biochemistry and molecular biology, the environment, engineering, and the arts. The university overall attracted a new high in research funding, including at UBC Okanagan where it increased more than 20 per cent over last year and has more than doubled in the last five years.

This report highlights many significant milestones and successes in the core area of research excellence at The University of British Columbia during the last year, and initiatives and support across the VPRI portfolio to address the themes of innovation, collaboration and inclusion outlined in the UBC strategic plan.

Our portfolio has also continued to support UBC's Indigenous Strategic Plan by coordinating initiatives such as new Indigenous Finance Guidelines to support respectful and timely compensation of Indigenous partners and collaborators.

Supporting and enhancing collaboration across our research community remained a key priority in 2021/22. Aligning with our institutional commitment to addressing the climate emergency, a climate research symposium was convened through our office in late 2021. The virtual symposium brought together clusters of relevant research activity across the institution to enhance the potential of UBC scholars and researchers to impact climate change through research and innovation.

We also initiated an external review of our Research Excellence Clusters program that will continue into 2022/23.

Our portfolio's commitment to furthering equity, diversity and inclusion is evidenced by the self-assessment activities and development of unit-level plans to implement the university's Inclusion Action Plan across our portfolio. Furthermore, our office, in partnership with the Equity & Inclusion Office, continued to advance the Dimensions pilot project towards the launch of an institutional action plan to address systemic barriers and inequities faced by equity-denied peoples in the

research ecosystem. That plan will be submitted to the Tri-Agencies for recognition by the federal Dimensions program in late 2022.

We also strengthened our support for the research community this year by expanding the facilities and services of our existing shared research platforms, and by integrating Upright Open MRI as the newest such platform. Our portfolio also supported consultations to inform a new institutional research data management (RDM) strategy in response to the Tri-Agency policy on RDM that launched in March 2021 and we presented a series of workshops on research security in collaboration with universities across western Canada.

Another focus in 2021/22 involved working with the university community to review how our Knowledge Exchange Unit can best help UBC researchers to effectively mobilize research knowledge.

This January, I was honoured to be reappointed to the role of Vice-President, Research and Innovation. It is a tremendous privilege to support my fellow researchers and scholars at this institution, and I look forward to building upon the strength of our community in the coming years.

I invite you to learn more about the ways that our portfolio strives to support research excellence, innovation, collaboration, and inclusion in Vancouver and the Okanagan as well as the range of research and scholarly activities, initiatives and achievements of UBC researchers over the past year.

Professor Gail C. Murphy
Vice-President, Research & Innovation



RESPONDING TO THE COVID-19 PANDEMIC

While public health orders and safety protocols allowed for on-campus research and scholarly activities to resume in 2021/22, for many, the repercussions of the pandemic remained acute. The pandemic's effects were felt unevenly across the research community and many research areas may continue to be affected for some time. To better understand the ongoing challenges and concerns of UBC scholars and researchers, VPRI held a series of town halls in April and May 2021. The goal was to identify how to help internally at the university and through collaboration with appropriate external bodies, such as funding agencies.

Discussions at each of the town halls covered many areas, but certain themes emerged consistently, including:

- the safety of everyone returning to campus as a top priority;
- the need for the university and funding agencies to recognize the unequal impact the pandemic has had. In particular:
 - women faculty and faculty of colour have been affected more negatively;
 - different academic disciplines require varying lengths of time to fully recover;
 - many early-career researchers have been more negatively affected and there is significant concern about the time it will take this group to recover due to gaps in productivity and funding; and
 - programs relying on off-campus and international travel for field work, archival or human participant research have been severely affected.
- a concern about how peer review panels will consider gaps in productivity due to the pandemic. Advocacy is needed to encourage panels to apply transparent and fair criteria during peer review. Gaps in productivity may persist after the pandemic;
- a concern about the repercussions of the pandemic, and in particular, the fact that teams have not been able to work in person has resulted in a loss of opportunities for mentorship and to share learnings among team members;

- that the university should consider surveys, focus groups or both, to understand what type of bridge funding would help faculty members, particularly early-career researchers, recover from the effects of the pandemic;
- that the VPRI should examine internal processes to ensure these do not contribute to further delays in productivity;
- how international graduate students are experiencing significant issues and delays when obtaining visas to work in Canada;
- that the university should enable international graduate students to engage in their programs from afar if they are unable to travel to Canada and to become actively involved in their programs once in Canada; and
- the need for clarity around mechanisms to ensure adherence to public health orders on our campuses.

Following the town halls, the VPRI committed to engage with funding agencies to:

- raise the need for recognition of how the pandemic has affected different disciplines and different groups of researchers and scholars unequally;
- consider at-cost extensions as an important element of any recovery;
- work to develop and apply a consistent, fair and transparent approach to peer review to ensure that the impact of the pandemic does not adversely or unequally influence competition results; and
- enable closer alignment among the agencies regarding definitions of different career stages, particularly for early-career researchers.

The VPRI also committed to working collaboratively with other units across the university around issues such as bridge funding and the challenges international graduate students are facing. Within the VPRI portfolio, a commitment was made to support researchers developing impact statements in grant applications and reports by creating a library of COVID-19 impact statements.

In terms of UBC's research response to the social and medical effects of the pandemic, our researchers continued to make significant local, national and global contributions.

Dr. Pieter Cullis's work in lipid nanoparticles and drug delivery (which began in the late 1970s) paved the way for the drug delivery system in the Pfizer-BioNTech COVID-19 vaccine, and UBC spin-off company Acuitas Therapeutics contributes to the lipid formulations that allow the Pfizer-BioNTech mRNA vaccine to enter human cells. Dr. Cullis and collaborators received international recognition and multiple awards in 2021/22, including the Prince Mahidol Award and the VinFuture Grand Prize.

At a national level, UBC researchers were also involved in the Coronavirus Variants Rapid Response Network (CoVaRR Net), a network of interdisciplinary researchers from institutions across the country created to assist in the Government of Canada's overall strategy to address the potential threat of emerging SARS-CoV-2 variants. Dr. Ninan Abraham serves on the network's leadership team, while several other UBC researchers lead or collaborate on the network's key research pillars.

Other research contributions to the medical response to COVID-19 included:

- Dr. Sriram Subramaniam's team conducting the world's first molecular-level analysis of the Omicron variant spike protein;
- a clinical trial led by Dr. Sabrina Wong to validate a new self-administered rapid antigen test;
- Dr. François Jean led a research project to investigate nasal sprays to prevent and treat COVID-19 and collaborated on a project with Dr. Michael Wolf and doctoral student Taylor Wright to develop a non-toxic coating for fabrics that decreases the infectivity of SARS-CoV-2 by up to 90 per cent;
- the capturing, on video, of a potential 'Achilles heel' of the virus in research led by Dr. Josef Penninger;
- a national survey, led by Dr. Kathleen Martin Ginis, to better understand the health and social impacts of the pandemic on people with disabilities; and
- the first peer-reviewed study in North America, led by Dr. Brian Grunau, examining the timing between the first and second doses of COVID-19 mRNA vaccines.

Provincially, Genome BC, the Michael Smith Foundation for Health Research, and the British Columbia Centre for Disease Control Foundation for Public Health partnered for the first time to fund rapid response research initiatives intended to directly benefit people in BC during the COVID-19 pandemic. Six of the funded projects were led by UBC researchers, with supported projects representing a mix of laboratory-based and social dynamics studies offering critical insights to urgent issues, while supporting near-term targeted public health responses and helping to ensure access to, and confidence in, vaccination programs for everyone in BC. UBC-led projects ranged from studies of vaccine effectiveness against variants of concern circulating in BC (led by Drs. Daniel Ting and Corinne Hohl) to using community-based approaches and peer education to improve vaccine confidence among people who are incarcerated (led by Dr. Sofia Bartlett) and understanding vaccine hesitancy among people who are pregnant, breastfeeding or who are parents of young children (led by Dr. Marie Tarrant).

UBC researchers continued to examine the mental health and social impacts of the pandemic. Studies included:

- Dr. Yue Qian examining how increased virtual contact during the pandemic affected the mental health of older adults and how adolescents' mental health declined or improved during the pandemic, as well as the pandemic-related impacts on family income and the gender employment gap,
- Dr. Lori Brotto ran a study to measure changes in sexual health among Canadians, including changes in libido and the prevalence of sexual violence,
- Drs. Brittany Barker and Hudson Reddon led a study into COVID-19 vaccine uptake, efficacy and safety among vulnerable urban populations, including people who use unregulated drugs,
- Dr. Nadia Khan led research examining how the pandemic affected physician burnout and found increased burnout among women, racialized and younger physicians,
- Dr. Lesley Lutes and collaborators examined public health messaging during the pandemic, uncovering that the messages did not connect with adults aged 18 to 40.

CONNECTING CLIMATE EMERGENCY RESEARCH

UBC is a recognized leader in climate change research, with a strong desire to improve connectivity between the clusters of relevant research activity across our Faculties. The VPRI portfolio is committed to developing mechanisms to support our researchers to expand, strengthen and coordinate interdisciplinary climate research at UBC and to develop and enhance partnerships to tackle the climate emergency.

Toward these aims, the VPRI convened a virtual Climate Change Research Symposium in October 2021, which brought together climate researchers from multiple Faculties on the Vancouver and Okanagan campuses. This symposium featured panel discussions and keynote speakers covering topics ranging from technological solutions to issues related to societal change

and action and increased the awareness of potential research connections across the UBC research ecosystem. Combined attendance at the sessions exceeded 600, comprising people from UBC and other institutions. It continues to act as a resource to the research community through the recordings of each session available on the VPRI website.

The VPRI thanks the co-chairs, Drs. Sally Aitken and Mark McLachlan, and the members of the UBC Climate Change Research Symposium Steering Committee for their scientific and strategic leadership throughout the planning of the event.

UBC Climate Change Symposium Sessions

DAY 1

Breaking the energy/climate change logjam

Chair: Dr. James Olson

Keynote Speaker: Dr. David Wilkinson

How do we get to a net-zero energy system?

Chair: Dr. Phil Barker

Panelists: Drs. Hadi Dowlatabadi, Kathryn Harrison, Kasun Hewage and Milind Kandlikar

How do we create the social climate for change?

Chair: Dr. George Hoberg

Panelists: Drs. Gregory Garrard, Shannon Hagerman, James Tansey and Jiaying Zhao

How can we protect ecosystems from climate change?

Chair: Dr. Sally Otto

Panelists: Drs. Amy Angert, William Cheung, Mary O'Connor and Adam Wei

How does climate change impact food security?

Chair: Dr. Jörg Bohlmann

Panelists: Drs. Cara Haney, Miranda Hart, Loren Rieseberg and Hannah Wittman

DAY 2

Housing justice in the fire zone: the case of paradise

Chair: Dr. Gage Averill

Keynote Speaker: Prof. Naomi Klein

How can society adapt to climate change?

Chair: Dr. Rashid Sumaila

Panelists: Drs. Danielle Ignace, Mark Johnson, Walter Mérida and Kate Weinberger

How is the climate system changing?

Chair: Dr. Sally Aitken

Panelists: Drs. Simon Donner, Christian Schoof, Philippe Tortell and Rachel White

How can society achieve a fair and responsible transition?

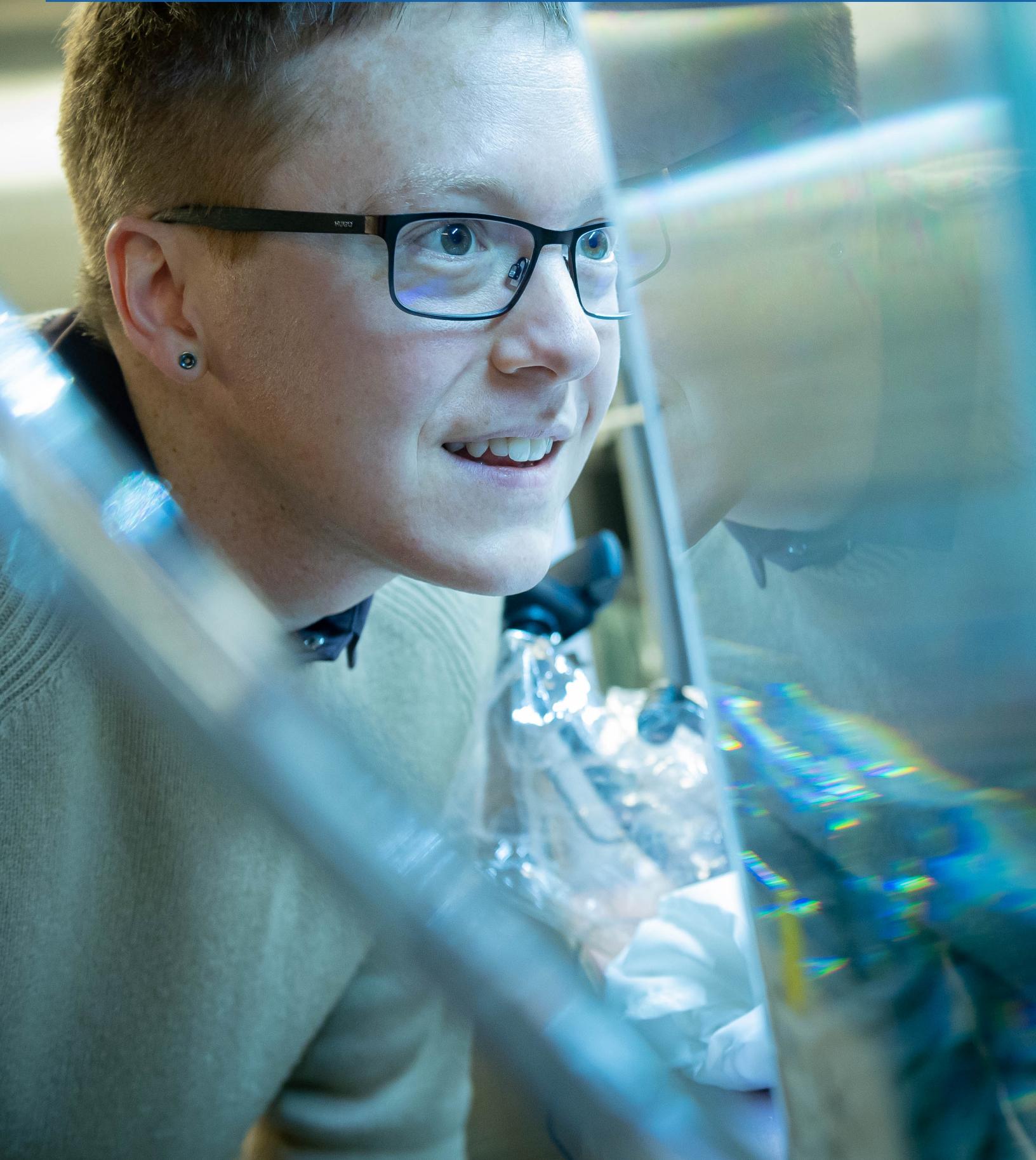
Chair: Dr. Gail Murphy

Panelists: Drs. David Boyd, Robert Clifford, Carol Liao and Hisham Zerriffi



Research and Innovation

at a Glance



\$773.7 m
UBC research funding
2021/22
10,218
research projects

#37
THE ranking
2022

#13
THE Impact
rankings
2022

27
Highly Cited
Researchers (2021)

199
Canada
Research
Chairs

622
active licenses
to UBC
technologies

\$11.5 b
cumulative sales of
products incorporating
UBC discoveries

245
cumulative
spin-off
companies

1,436
industry-sponsored
research collaborations
2021/2022

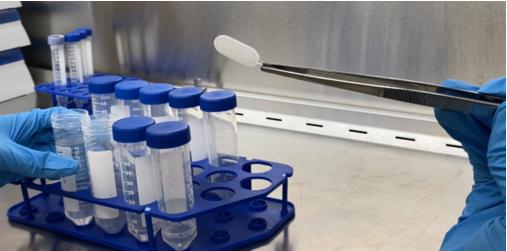
353
patents filed
2021/22

Research Highlights



Identifying the portable toilets of the ancient Roman world

Research from an archaeological project led by UBC's Dr. Roger Wilson revealed how archaeologists can determine when a pot was used by Romans as a portable toilet, known as a chamber pot.



Stem cell-based treatment produces insulin in patients with Type 1 diabetes

The treatment was provided to BC patients living with a severe form of Type 1 diabetes as part of a multi-year clinical trial led by researchers at UBC and Vancouver Coastal Health.



photo: Adobe Stock

Psychedelic microdosing improves mental health: study

Participants in the study who reported consuming psychedelics in small quantities demonstrated fewer symptoms of anxiety and depression, and greater feelings of wellbeing.



photo: Unsplash

AI used to rapidly detect sepsis, dramatically cutting risk of death

Using machine learning, UBC researchers identified sets of genes that predict whether a patient will acquire severe sepsis, and how the sepsis will manifest itself.



photo: Kai Jacobson

Stretchy, washable battery brings wearable devices closer to reality

Dr. Ngoc Tan Nguyen and colleagues have created a battery that works even when twisted or stretched to twice its normal length or after the laundry.



photo: Mario Todesco

Sunflowers' invisible colours help attract bees and adapt to drought

Researchers from the Biodiversity Research Centre learned that the ultraviolet colours of a sunflower not only attract pollinators, they also help the plant regulate water loss.



William Shakespeare's First Folio gifted to UBC Library

The 1623 publication is considered the most authoritative of all early printings of Shakespeare's work.



photo: Ingrid Larivis

Spending time in nature promotes early childhood development

New UBC research suggests living in areas with high exposure to green space can help set children up for success in development areas such as language skills, cognitive capacity and socialization.



photo: Unsplash

How racism holds Black women back from leadership positions

A new study from the UBC Sauder School of Business found that persistent stereotypes about Black women, particularly the 'angry Black woman' trope, put them at a serious disadvantage in the workplace, affecting performance evaluations and assessments of leadership capability.



photo supplied by: Dr. Shandin Pete

Indigenous stories reveal the science of the world around us

Dr. Shandin Pete in UBC's Department of Earth, Ocean and Atmospheric Sciences investigated how the Heart of the Monster land formation may have helped his Seliš ancestors judge when to safely cross rivers along the buffalo trail.



New book maps links between global finance and the places we call home

UBC Architecture professor Matthew Soules' research outlines how finance capitalism transforms not only architectural forms, but also the very nature of our cities and societies.



Examining the art of telling lies

Dr. Leanne ten Brinke published research that looked at how telling lies, and receiving feedback that the lie was believable, can impact people's memory of the truth. The research revealed that over time, attempts to deceive others may in turn become self-deception.



Physical fitness of wild Pacific sockeye salmon unaffected by piscine orthoreovirus (PRV)

The respiratory performance of wild Pacific sockeye salmon functions normally even when infected with PRV, according to a new study released by UBC researchers.



Contaminants in many generic drugs may have harmful effects: study

The contaminants may cause damage to DNA, affect basic cell functions and even increase a person's risk of cancer.



Climate activists Naomi Klein and Avi Lewis join UBC

Prof. Klein will help establish the Centre for Climate Justice while Prof. Lewis will teach courses focusing on climate change, communication and documentary filmmaking.



Aircraft can get higher and greener from doped fuels

A team of researchers studying the burning rate of nanomaterials in liquid fuels have created a recipe for clean-burning, power-boosting aircraft fuel.



'Inclusion should trump exclusion,' new book reminds 2SLGBTQ+ students the law is on their side

That's according to *Making the Case: 2SLGBTQ+ Rights and Religion in Schools*, co-written by a professor at UBC's Peter A. Allard School of Law. The book examines rights of identity versus religion and culture in schools.



BC's spending on K-12 education drastically increased over the last 50 years: study

According to the study from UBC Faculty of Education researcher Dr. Jason Ellis, attempts to control spending — not actual spending reductions — drive conflict between the provincial government, school districts and the British Columbia Teachers' Federation in BC's K-12 sector.



Chemist examines sustainable drug production using plant by-products

A UBC research team has discovered a group of enzymes from the *Camptotheca acuminata* tree that oxidize camptothecin, a key step in enabling the production of drug compounds that are used to treat ovarian and small-cell lung cancers.

AWARD WINNERS

The Office of Research Prizes and Awards (ORPA) provides the UBC research community with strategic guidance and nomination support for national and international awards and prizes recognizing innovative and impactful scholarly achievements. The office was formally established in 2021/22 and expands upon previous VPRI portfolio support for prizes and awards.

Major research awards received by UBC faculty in 2021/22 include:

International

American Association for the Advancement of Science

Dr. Shawn Mansfield was recognized for distinguished contributions to plant science.

Prince Mahidol Award

Dr. Pieter Cullis was honoured for ground-breaking work on lipid nanoparticles.

VinFuture Grand Prize

Dr. Pieter Cullis and peers were recognized for their work on mRNA technology that paved the way for effective COVID-19 vaccines.

American Anthropological Association's Council of Museum Anthropology's 2021 Michael Ames Prize

Dr. Nicola Levell was recognized for innovative museum anthropology.

National

SSHRC Impact Partnership Award

A team led by **Dr. Rashid Sumaila** was recognized for interdisciplinary work to understand and address threats facing Canada's coastal regions and develop a shared vision for the future of Canada's oceans

NSERC E.W.R. Steacie Memorial Fellowship

The award recognized **Dr. Emily Cranston**'s innovative contributions to the fields of wood science, chemical and biological engineering.

Order of Canada

Four current and former faculty members were elected as Officers of the Order of Canada: **Drs. Pieter Cullis, Connie Eaves, Donald McKenzie** and **Mary Ellen Turpel-Lafond**

Three current and emeriti faculty members were named as Members of the Order of Canada: **Drs. Walter Hardy, Curtis A. Suttle** and **Peter Zandstra**

Canadian Academy of Health Sciences

Elected fellows: **Drs. Teresa Liu-Ambrose, Gina Ogilvie** and **Anita Palepu**

Royal Society of Canada

Nine UBC faculty were named RSC Fellows: **Drs. Alejandro Adem, Jeannette Armstrong, Curtis Berlinguet, Prof. Isabel Grant** and **Drs. Stephen Guy-Bray, C.W. (Toph) Marshall, Raymond Ng, Roger Wilson** and **Alison Wylie**

Dr. Sheryl Lightfoot was named as a new Member of the College of New Scholars, Artists and Scientists.

UBC

ORPA oversees recognition at an institutional level through UBC's internal faculty research awards program. 2021 recipients:

Jacob Biely Research Prize **Dr. Nemkumar Banthia**

UBC Killam Accelerator Research Fellowships **Dr. Russ Algar, Prof. Efrat Arbel, Drs. Gwynn Elfring, Sabrina Leslie, Megan Smith and Camilla Speller**

UBC Killam Research Fellowships Junior Category: **Drs. Jason Ellis, Sebastian Prange, Daisy Rosenblum, Y-Dang Troeung, Elizabeth Wolkovich and Gaocheng Zhang** Senior Category: **Drs. Robinder Bedi, Jonathan Davies, David Tindall and Mary Lynn Young**

UBC Killam Research Prizes

Arts & Humanities:
Junior Category: **Drs. Connor Kerns and Kristin Laurin**
Senior Category: **Drs. Karl Aquino, Bruce Miller, David Tindall**

Applied Science, Medicine, Sciences:
Junior Category: **Dr. Mark Schmidt**
Senior Category: **Drs. Catherine Johnson, Aly Karsan, Raymond Ng and Marina von Keyserlingk**

Charles A. McDowell Award for Excellence in Research **Dr. Stephanie Waterman**

President's Award for Public Education Through Media **Dr. Anna Blakney**

Sam Black Award for Education and Development in the Visual and Performing Arts **Prof. Gayle Murphy**

Innovation Highlights



Lhoosk'uz Dené village taps into clean water after a 20-year wait

The community west of Quesnel, BC invited a team from UBC's Faculty of Applied Science and the RES'EAU Centre for Mobilizing Innovation to work with them to develop a new water treatment plant crafted to their unique needs. The community will also continue to receive support towards their water system through ongoing partnership with the team.



New text-message program helps ease transition to parenthood

Dr. Patricia Janssen and her team launched SmartParent to provide timely messages on everything from growth and developmental milestones, to infant safety, feeding and sleeping.



UBC clean hydrogen technology deployed to Alberta in \$7M collaboration

The technology — methane thermal cracking — can produce up to 200kgs of hydrogen a day using natural gas, without using water, while reducing or eliminating greenhouse gas emissions.



Collaboration with Fenix Advanced Materials to design smaller, more powerful battery

The teams will work together to design smaller-scale, more powerful versions of solid-state batteries like those used in electric vehicles.



New tool estimates how much affordable housing a city needs

The Housing Assessment Resource Tools helps assess a city's housing needs by analyzing incomes and future population growth.



Optimizing patient care for children and youth with diabetes in BC interior

Researchers at UBC Okanagan partnered with Interior Health to better understand the quality of patient care for children and youth with Type 1 diabetes in the BC interior.



Research on Wagyu-style beef alternatives starts at UBC

Researchers at the Faculty of Land and Food Systems partnered with Wamame Foods to research high-end, plant-based pork and Wagyu beef alternatives.



UBC researchers launch first-in-Canada testing program for Alzheimer's disease

The test, developed by Dr. Mari DeMarco and her team, could assist with earlier and more accurate diagnosis of the disease, giving patients and their families much needed answers and assistance with planning.



The National Research Council of Canada and UBC launch new Collaboration Centre for Clean Energy Transition

Researchers from the NRC and UBC's faculties of Applied Science and Science will work together to develop innovations in hydrogen and carbon technologies across the value chain of clean energy development.



UBC researchers helping communities prepare for the effects of climate change

A new app tailored to individual households and the community-based Cool 'Hood Champs program, both developed by UBC researchers, are helping BC residents develop climate emergency preparedness and resilience in their communities.

Innovation UBC

Innovation UBC helps bring opportunities to life, generating social, cultural, environmental, health and economic impacts that improve lives in BC and around the world.

It builds on UBC's track record of translating research discoveries and partnerships into new technologies, services, treatments and policies. It makes connections and creates transformative partnerships between UBC research excellence and industry, government, non-profits and community groups. Innovation UBC guides these partnerships through the most effective pathways to help them generate impacts, including collaborative research, knowledge exchange, patenting and licensing, and venture building.

In 2021/22 the Innovation Partnerships team continued to support the ongoing development of relationships with corporate partners such as Microsoft and Rogers. In November 2021, Rogers and UBC renewed their partnership around 5G research with a four-year, \$4.8 million agreement. Building a new partnership model for 5G research and development projects, researchers at UBC's Vancouver and Okanagan campuses and Rogers will be challenged to develop, explore and test new made-in-Canada 5G capabilities in areas such as wildfire management, human teleoperations and emergency response. The technologies developed will aim to save lives and address significant local and global challenges.

The team also supported the development of partnerships through Canada's Digital Technology Supercluster. Projects include: creating a new digital maintenance platform to transform the aviation industry; building the first federated and fully protected global network for sharing genomics and biomedical data to accelerate research to develop precision healthcare approaches for individuals with autism; and building the first integrative platform for microbiome analysis, which could lead the way in replacing energy and chemical-intensive resource extraction and improving mining-site cleanup techniques. A new partnership with the Protein Industries Canada Supercluster was also supported and aims to produce and commercialize high-end pork and Wagyu beef alternatives.

Innovation Partnerships was also involved in the 2021/22 Campus as a Living Lab Seed Fund competition, designed to support new teams and partnerships in creating sustainability solutions using UBC's campus lands, buildings, infrastructure and people as a living lab. The four funded projects announced in March 2022 focus on repairing and reusing electronics at UBC, designing student-family housing to promote wellbeing, tracking and monitoring insects on campus as indicators of changes in ecosystems, and developing a new facility to recover high-value products from wastewater.

2021/22 was a year of transition for the UBC Knowledge Exchange Unit, with the role and mandate of the unit being

redeveloped by the Knowledge Exchange Advisory Committee and through an extensive series of consultations with faculty members across the university. With a new lead starting in early 2022/23, it is anticipated that the main focus of the unit will be on providing educational resources and training activities and developing and maintaining the online resources library in building a community of practice across UBC to support knowledge exchange activities in multiple disciplines.

entrepreneurship@UBC continued to provide programming for UBC students, faculty, staff and recent alumni to develop impacts through venture building, and thus create a pipeline of scalable, investable startups for the region. A series of town halls, investor showcases and special events, including the second edition of entrepreneurship@UBC Immersion Week, built upon the strength of the university community. The Immersion Week's series of 26 virtual workshops, fireside chats and panel discussions attracted more than 600 attendees and featured more than 70 leaders and innovators.

New venture cohorts were welcomed into key programming streams: Entrepreneurial Explorer, Venture Founder and the HATCH Venture Builder (formerly the HATCH Accelerator), which is delivered in partnership with UBC's Institute for Computing, Information and Cognitive Systems (ICICS). Programming support also expanded to include the Climate Venture Studio in 2021, followed by the Human Health and Social Impact Venture Studios. The venture studios provide resources to ventures, including mentors, entrepreneurs-in-residence, talent recruitment and programming, on top of the foundational Venture Founder and HATCH Venture Builder programming and resources. Each studio brings specialized knowledge in market opportunities, business models, sales and fundraising to help ventures gain traction and more deeply embed themselves within their industry verticals.

Notable success in 2021/22 for ventures supported by entrepreneurship@UBC include Takachar, which won Prince William's £1 million (\$1.5 million) inaugural Earthshot Prize in the Clean Our Air category. They, along with UBC spin-off company Carbin Minerals, were also winners in the Carbon Removal Student Competition as part of the \$100 Million XPRIZE for Carbon Removal supported by the Musk Foundation. Vancouver-based, AI-powered startup TrafficDriven Technologies won the 2021 New Ventures BC Competition, presented by Innovate BC, receiving the \$110,000, first-place prize. Granting platform Pocketed, received \$25,000 as the winners of Forum's Pitch for the Purse competition. More than 30 companies supported by entrepreneurship@UBC on both campuses were named alongside UBC spin-off companies in the 2021 Ready to Rocket List which celebrates BC's Leading Growth Tech companies.

In the Okanagan, entrepreneurship@UBCO delivered its new, four-part eDiscovery Workshop Series in partnership with Accelerate Okanagan, where a diverse cohort of aspiring and active entrepreneurs learned about ideation, the business model canvas and customer validation. entrepreneurship@ UBCO's signature Mentor 2 Market program engaged 11 ventures working on solutions ranging from tech-enabled water management to intravenous solutions integrated with the Internet of Things (IoT). Linkbase, a venture in the 2022 cohort, successfully piloted its IoT platform, first in partnership with a local wildfire mitigation solution firm and later in the hospitality sector. The venture received a valuation of \$5.4 million after its first raise and two of its founders were announced among Kelowna's Top 40 Under 40.

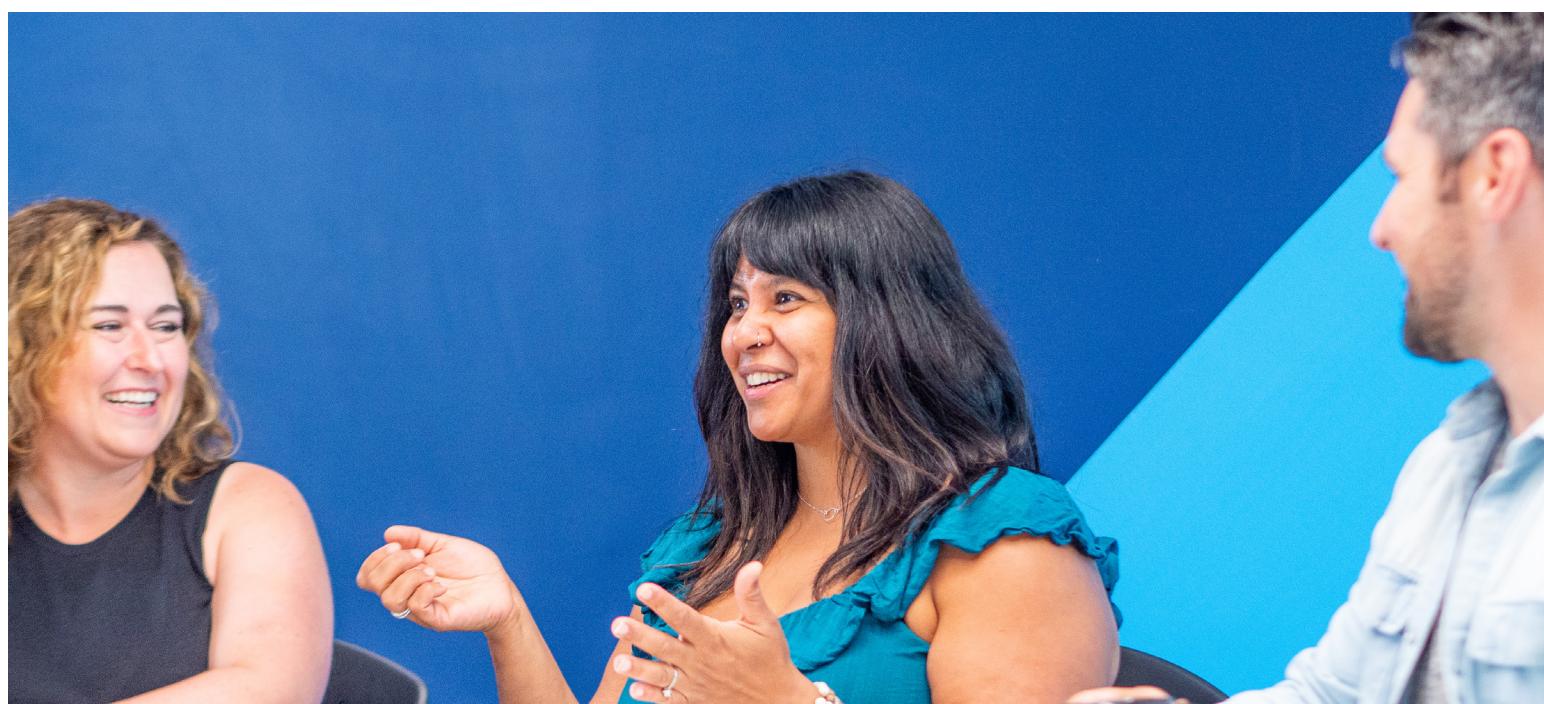
The University-Industry Liaison Office provided contractual support for 1,436 industry-sponsored research projects with a combined budget of more than \$80 million in 2021/22. A further 1,350 contracts with government and non-profit partners had a combined budget of nearly \$129 million last year. The office oversaw 164 invention disclosures and executed 115 new license and assignment agreements to UBC technologies. This included the creation of 10 new spin-off companies, raising the cumulative total of all UBC spinoffs to 245. In 2021/22, technology transfer licensing generated more than \$28 million in revenue for the university. In 2021, UBC ranked joint first overall worldwide in the THE Impact Rankings for its performance against Sustainable Development Goal 9 - Industry, Innovation and Infrastructure.

Notable successes for UBC spin-off companies include Prometric Canada's acquisition of Paragon Testing Enterprises — Canada's largest provider of high-stakes English language

proficiency tests. The acquisition will significantly increase global access to the Paragon tests, which are currently administered at 60 test centers across Canada and at 15 locations in the United States, China, India, Philippines, Singapore and the United Arab Emirates. Tasktop Technologies announced a strategic investment of \$100 million US (\$129.8 million) led by Sumeru Equity Partners, a growth-focused technology investment firm based in the San Francisco Bay Area, to accelerate growth and expand market leadership. Mirametrix Inc., a software company focused on advanced artificial intelligence (AI) solutions for computer vision applications, was acquired by Lattice Semiconductor Corporation to create an end-to-end AI and computer vision solution that spans from the hardware to the application layer. CurvaFix, a joint UBC, Vancouver Coastal Health and BC Cancer spin-off company commercially launched its revolutionary orthopedic implant, which promises to set a new standard for pelvic fracture repair.

2021/22 Spin-off Companies

1. ABOzymes Inc.
2. Amphotericin B Technologies
3. Andira Medicine
4. Asep Medical Holdings
5. Copper Technologies
6. Dream Photonics
7. Gandeeva Inc.
8. I2SIM-RT Technologies
9. Nickel Technologies
10. Telescope Innovations Corp.



Strengthening Shared Research Infrastructure and Resources

The VPRI Office works with faculty members, research staff and academic leaders to create and manage shared research platforms that provide access to specialized services, training and equipment. These platforms are open to all researchers and support the acquisition of preliminary data to include in grant requests and execution of funded projects.

Several research projects that utilize our shared research platforms were highlighted in the media in 2021/22. The Facility for Infectious Disease and Epidemic Research (FINDER), enabled the work on the development of nasal spray treatments for COVID-19. The facility also supported the development of an inexpensive fabric coating that decreases the infectivity of the SARS-CoV-2 virus that causes COVID-19. The technology is safe for human use and can be used on almost any fabric. Plant Care Services, a facility that combines research greenhouses and a field station, provided essential support for a study on the role of ultraviolet colours of sunflowers to attract pollinators and regulate water loss.

FINDER was also the site of many other research projects linked to COVID-19 including analysis of the biology of SARS-CoV-2 to support the development of therapeutics. A mix of staff members, graduate students, postdoctoral fellows, research associates and principal investigators for a total of 46 people trained and worked in the facility, generating 10 publications in 2021/22, including a publication in *Nature*.

Plant Care Services was the site of 100 different research projects, including some in partnership with the local horticultural industry. Despite a slowdown of in-person research due to COVID-19, the two research greenhouses were used at 87 and 72 per cent capacity and 2,400 square meters of land were dedicated to field research on both perennial and annual crops, ranging from wheat to grapes, conifers and hazelnuts. The facility also upgraded some critical climate control systems in greenhouses including heating, venting, CO₂ concentration and irrigation systems.

In 2021/22, Animal Care Services (ACS) introduced a high-throughput histology platform for digital slide imaging of tissues on a fee-for-service basis. Supporting routine and on-demand histological processing, the platform is offered with training, assistance and consultation from ACS staff. A new MRI laboratory at the Centre for Comparative Medicine core facility will also help fulfill basic and translational research needs for non-invasive animal model assessments. The laboratory,

funded in part by a Canada Foundation for Innovation grant for Dr. Cheryl Wellington, will initially focus on researching neurotrauma and its relationship to neurodegeneration. Finally, ACS introduced a new animal and tissue donation program among researchers that is anticipated to help prevent the use of more than 1,000 research animals per year.

In late 2021, Upright Open MRI (UOMRI) became the newest shared research platform to come under the VPRI umbrella. The facility's scanner is unique in that it allows the body to be imaged upright and in weight-bearing or a range of postures and is the only scanner of its kind dedicated to research in North America. The UOMRI team offers study setup, MRI protocol development, imaging and image analysis, and support for Tri-Agency funding applications. The facility is jointly funded by the VPRI, the Faculty of Medicine and the Centre for Hip Health and Mobility.

UBC Advanced Research Computing (ARC) continued to provide dedicated UBC research computing infrastructure through its Sockeye high-performance computing (HPC) cluster and Chinook storage platform. To expand Sockeye's available computational capacity, ARC piloted integrating the Sockeye HPC cluster with commercially available cloud services using what's known as a hybrid cloud-bursting solution. Globus Plus service was launched to allow UBC researchers to efficiently, securely and reliably transfer data between local computers, ARC infrastructure and many research computing endpoints worldwide. ARC also expanded the availability of cloud computing services from multiple vendors and launched the RONIN platform to provide UBC researchers with a user-friendly web interface to harness powerful and flexible cloud computing infrastructure without learning complex details of cloud computing.

The Sequencing and Bioinformatics Consortium, which offers start-to-finish solutions for sequencing services, offered consultations, workshops and a webinar as part of its educational activities to meet the high demand for such services at UBC. The laboratory processed samples from eight different Faculties, UBCO and external users, serving 134 principal investigators. The facility also offered several different types of bioinformatics support from high-performance computing resource management to custom analysis.

Enabling Collaboration

RESEARCH EXCELLENCE CLUSTERS

The Research Excellence Clusters program supports researchers to form new and develop existing interdisciplinary clusters addressing key challenges facing society. With the support of the Grants for Catalyzing Research Clusters program in Vancouver and the Eminence Program

at UBC Okanagan, our researchers are undertaking ground-breaking new work at the intersection of disciplines.

In 2021/22, a total of 46 clusters were supported; 35 on the Vancouver campus and 11 in the Okanagan.

Vancouver Campus Established Clusters

1. Action on Sepsis
2. Advanced Materials Manufacturing
3. BC Diabetes Research Network
4. BC Regenerative Medicine
5. Biodiversity Research: An Emerging Global Research Priority
6. Biomedical Imaging and Artificial Intelligence
7. Bionics Network
8. Designing for People
9. Diversified Agroecosystem Cluster
10. Dynamic Brain Circuits in Health and Disease Research Excellence Cluster
11. Gynecologic Cancer Initiative
12. Harnessing the Social Exposome to Reduce Inequalities in Child Health and Development in Canada
13. Language Sciences Initiative
14. Migration
15. Quantum Computing Research Cluster
16. Resuscitating More Patients from Sudden Unexpected Death: Transformative Research
17. The Airway Centre
18. Transformative Health and Justice
19. UBC Research-Based Theatre Collaborative

Vancouver Campus Emerging Clusters

1. Advancing Mental Health Equity in a Post-COVID-19 Asia-Pacific
2. Advancing the Science of Physiologic Birth
3. Ars Scientia
4. Bee Health, Impact, and Value in the Environment
5. Blockchain at UBC
6. Cluster for Microplastics, Health and the Environment
7. Data Science and Health
8. Decision Insights for Business & Society

9. Interdisciplinary Histories Research Cluster: Contemporary Engagements with the Past
10. Mobilizing Sport and Sustainability Collective
11. Reducing Male Suicide
12. Relational Technologies: Land, Sovereignty, and Language in Community-Led Immersive Storytelling
13. The Score: Performing, Listening, and Decolonization
14. The Transformative Memory Network
15. UBC Wild Berry Research Cluster: A Community-Driven Participatory Knowledge Transfer Plan
16. Women's Health Research Cluster

Okanagan Campus Clusters

1. Urban Indigenous Wellbeing
2. Plastic Recycling
3. Green Infrastructure Research Cluster
4. Indigenous-Led Impact Assessment Research Cluster
5. Aging in Place
6. Airborne Disease Transmission
7. Watershed Ecosystems
8. Exosome Isolation Research Cluster
9. Comfort-Enhancing Technologies
10. Homelessness
11. Rural Health Equity

GLOBAL RESEARCH EXCELLENCE INSTITUTES

UBC Global Research Excellence (GREx) Institutes advance global excellence in collaborative and interdisciplinary research. They aim to integrate fundamental and translational research and allow research clusters to realize their full potential and impact.

The Language Sciences Institute was designated the third GREx Institute in 2021, joining the Stewart Blusson Quantum Matter Institute and the BioProducts Institute. The Language Sciences Institute received funding through the UBC Grants for Catalyzing Research Competition since 2018. Designation as a GREx Institute reflects demonstrated potential to become globally exceptional, both in terms of academic impact and translational and societal benefits.

The Language Sciences Institute aims to connect scholars, teachers and researchers working in all areas of the language sciences to create collaborations that produce and support innovative research. Members span fields, disciplines, Faculties and institutions. From investigating children's development of language to examining dyslexia and recovery from stroke, to helping the revitalization and maintenance of Indigenous languages, to modelling the human vocal tract, researchers in the Language Sciences Institute help to improve lives and inform society.

In August 2021, Pacific Economic Development Canada awarded \$3.5 million to the BioProducts Institute to support the creation of alternatives to plastic-based, single-use products using waste and residues from BC forests. This funding will support the development, scale-up and production of sustainable bioproducts, such as filters, adhesives and lightweight materials, by helping de-risk technologies and foster the commercialization of bioproducts and solutions.

In November 2021, the Stewart Blusson Quantum Matter Institute renewed a critical partnership linking three leading research organizations for a third five-year term. The Max Planck-UBC-UTokyo Center for Quantum Materials (CQM) was formed in 2017 as an expansion of the original Max Planck-UBC Centre for Quantum Materials that was established in 2012. All three organizations committed to the extension of the Max Planck-UBC-UTokyo partnership into 2027, marking the first-ever extension of an international Max Planck centre beyond ten years.

This Max Planck-UBC-UTokyo partnership combines internationally recognized scientists with extensive infrastructure for research in quantum materials. The CQM supports collaborative projects, scholarly exchanges, annual workshops, the International PhD Program in Quantum Materials, training for graduate students and postdoctoral fellows, and provides a platform for interdisciplinary exchange and cooperation.



Diamond Point, wə̄ mi ct q̄pəθət tə ɬimə̄, 2020, lamppost banners (below) installed along Main Mall as part of *Soundings: An Exhibition in Five Parts*, at the Morris and Helen Belkin Art Gallery, The University of British Columbia. Collection of the artist. Photo: Rachel Topham Photography. *Soundings* was made possible in part through The Score Research Excellence Cluster.

PUBLIC HUMANITIES HUBS

UBC established a Public Humanities Hub (PHH) on each campus in 2019 to provide tailored support for humanities scholars. A pilot project supported by UBC's Academic Excellence Funds, the hubs are the result of wide consultation with UBC humanities researchers to highlight and develop public-facing research in the humanities and complement the existing research excellence clusters competitions.

The Vancouver hub engaged in a range of activities in 2021/22. In May 2021, a new Environmental Humanities Research Network was launched to explore interdisciplinary, humanities-focused research initiatives to address the climate emergency. The PHH in Vancouver also established seed grants to provide low-barrier funding for creative and collaborative public humanities research projects. Three research clusters were funded on topics ranging from photography to law and creative social justice studies, while four fellowships were awarded to scholars to support their development of public-facing humanities research projects within an interdisciplinary

community of scholars. PHH Vancouver also partnered with several local organizations such as the Vancouver Art Gallery and Massy Arts Society and recognized humanities scholars' contributions to knowledge exchange through two awards for public engagement.

At the Okanagan PHH, Drs. Jodey Castricano and Jessica Stites Mor were appointed co-directors in late 2021, taking the reins from interim director Dr. Greg Garrard. Though the ongoing pandemic affected the ability to conduct some activities, the hub hosted several virtual and in-person events, particularly through the Practical Matters Public Humanities event series which drew speakers from across North America to share experiences and find community in the humanities. The hub also funded seven proposals (with a combined value of nearly \$60,000 across its Workshop Grants and the Research Engagement Fund) in support of humanities researchers in the Okanagan and co-sponsored a number of national and international events with partners.

COLLABORATIVE RESEARCH MOBILITY AWARDS

The Collaborative Research Mobility Awards (CRMA) are designed to facilitate collaboration on timely research opportunities by enabling researchers to move between campuses or institutions. In 2020/21, three programs were launched under these awards to promote collaboration across our two campuses, through partnerships with researchers at the University of California, Los Angeles (UCLA), and with researchers at the University of Washington (UW). While the programs with UCLA and UW were put on hold due to the pandemic, the UBC competition relaunched in 2021/22.

The UBC CRMA

These awards support research collaboration across UBC in Vancouver and the Okanagan by providing funding to initiate new, and strengthen existing, research collaborations, and to enable access to unique infrastructure and core facilities at each location. With the easing of pandemic-related restrictions, more researchers were supported through the program this year, with 20 projects across eight Faculties receiving awards in 2021/22. Projects range from e-cigarette cessation and forest-fire smoke chemistry to the physiology of breath-hold (free) diving, and land-based Indigenous art.



Fostering Student Research



Due to disruptions caused by the pandemic, a number of the two-year projects funded through the Program for Undergraduate Research Experience (PURE) in 2018/19 deferred the conclusion of their activities to 2021/22.

One such project, the Experiential Human Rights Research project led by Dr. Jenny Peterson, built upon a partnership with the Scholars at Risk (SAR) Network out of New York University to explore undergraduate-led research projects about global human rights. By the conclusion of the project, more than 100 students had participated in experiential learning projects with SAR and contributed to the development of instructional resources including ones about academic freedom, engaging the media and community care. The work of the Experiential Human Rights Research project led to the development of the UBC Human Rights Collective, which now serves as a space for scholars to support other human-rights focused research and learning opportunities across the university. The Collective, which is based out of the Faculty of Arts' Office of Regional and International Community Engagement, has established several additional research collaborations and nationally funded research projects, and created a significant partnership with the Dallaire Centre of Excellence for Peace and Security. Future work will see experiential research opportunities further integrated into undergraduate courses at UBC.

Another PURE project, Decolonizing the African Collections and Displays at MOA (DAC-MOA), employed and trained 32 students (with backgrounds in African Studies) to research and update the descriptions of approximately 1,000 objects at the Museum of Anthropology (MOA). The students researched the object origins, which languages were used to describe them, their cultural importance, and present-day contexts. Participants learned about the objects they researched and the importance of connecting with local knowledge holders. The two-year project was formed through a collaboration of Faculty of Arts students with UBC History professor, Dr. David Morton and MOA curator, Nuno Porto.

UBC researchers were also successful in securing funding from NSERC for two new projects in the Collaborative Research and Training Experience (CREATE) program. The grants will support the careers of students and postdoctoral fellows as they develop research and other professional skills. The two UBC-led projects are the NSERC CREATE in Immersive Technologies (CITech), led by Dr. Abbas S. Milani (School of Engineering, UBCO) and the NSERC CREATE Pacific Rim Ocean Data Mobilization and Technology (PRODIGY) led by Dr. Philippe Tortell (Department of Earth, Ocean and Atmospheric Sciences) at the UBC Vancouver campus.

Enabling Knowledge Exchange

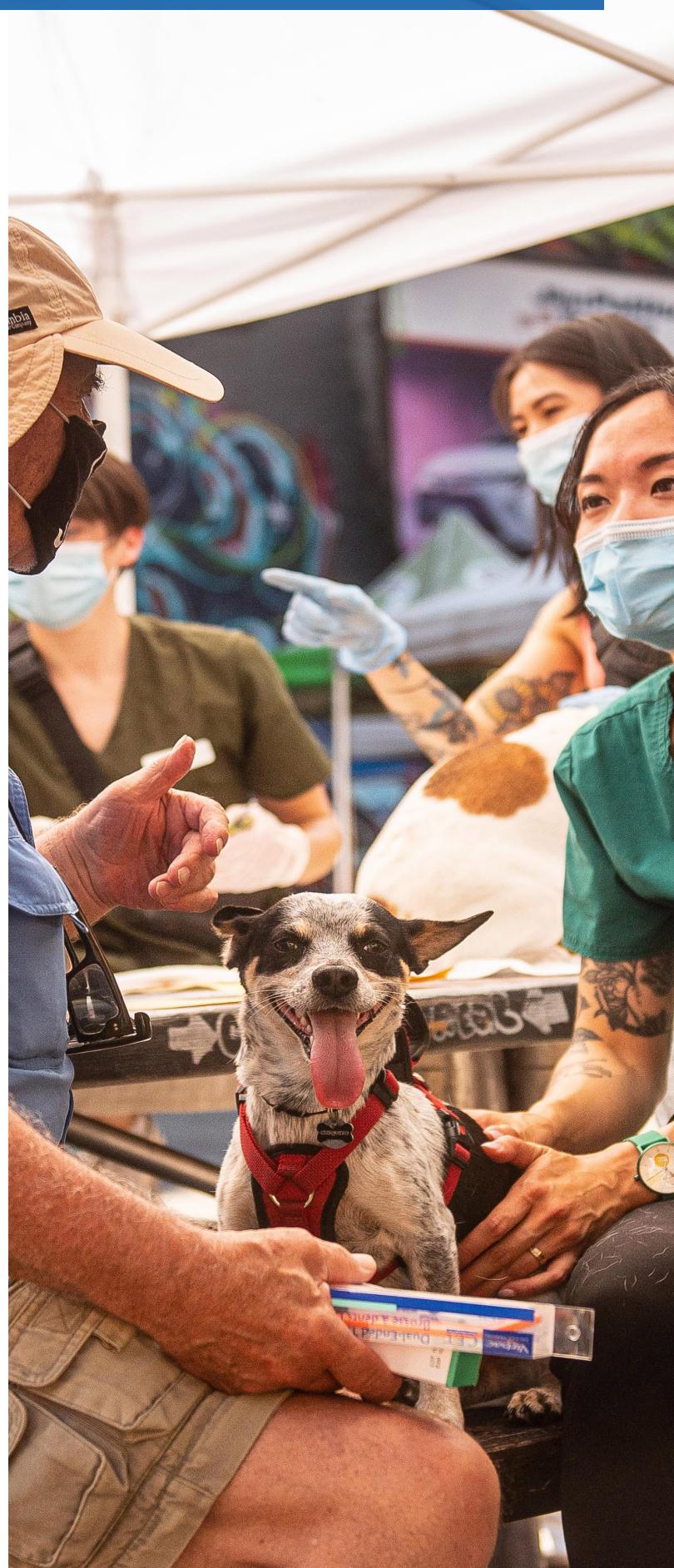
In 2021/22 consultations were held with stakeholders across UBC campuses and affiliated health research institutes regarding the future direction of the UBC Knowledge Exchange Unit. With a new unit lead starting in May 2022, it is anticipated that the unit will focus on providing training and resources to support capacity building among UBC researchers, students and staff across disciplines to develop and share impactful knowledge through connections and exchange with communities, government, non-profits and the general public.

Although 2021/22 was a year of transition for the UBC Knowledge Exchange Unit, many initiatives and activities were supported by the VPRI.

The unit worked with campus partners to launch its online resource guide, which is designed to help the research community navigate UBC support for communication, partnership development and other resources to mobilize research for positive change. The UBC community can submit resources to the guide and it is anticipated to undergo ongoing development and updates in the coming years.

The VPRI office was a partner once again with UBC's Community Engagement office in the 2021/22 Community-University Engagement Support Fund (CUES) competition. Paid directly to community partners, CUES funding reduces financial barriers and prioritizes reciprocal, inclusive engagement so all communities — especially those that have been, and continue to be, under-served, marginalized, or excluded — can benefit. A total of \$500,000 was invested in UBC partnerships with 27 organizations to create community-university projects across BC. Funding recipients included 11 Indigenous community partners, with representation in nine Faculties across UBC's Vancouver and Okanagan campuses. Eight projects included student co-applicants.

UBC researchers were successful in attracting funding through the Convening & Collaborating (C²) and Reach competitions offered by Michael Smith Foundation for Health Research (which has since merged with the British Columbia Academic Health Science Network to form Michael Smith Health Research BC). These programs create pathways from research evidence to practice and help ensure that cutting-edge health research can directly improve health outcomes for people and communities in BC. Fourteen teams led by UBC researchers received funding through the C² program, which supports researchers, trainees and those with lived experience to co-develop research that can have direct benefits to patients and the public. Five teams led by UBC researchers received Reach funding, whose aim is to disseminate research evidence with people who can directly benefit from it, with the goal to impact health and care in BC. Research teams often comprise clinicians, youth, patient partners and trainees.



Enhancing Research Culture

The VPRI is committed to enhancing the culture of inclusion across the VPRI portfolio through meaningful engagement in and responses to UBC's Inclusion Action Plan and a commitment to implementation of the Indigenous Strategic Plan. It is also engaged in a number of strategic initiatives and programs dedicated to enhancing research culture at UBC and nationally.

UBC Dimensions Pilot

2021/22 saw continued momentum for UBC's Dimensions pilot project. To better understand the obstacles and inequities faced by traditionally marginalized and under-served groups in the UBC research ecosystem, the Dimensions project team undertook a range of data gathering and engagement activities throughout the year as part of a self-assessment process.

Following an initial environmental scan of the university's policies, programs, practices and initiatives affecting EDI in UBC's research community, the Dimensions project completed a series of data walks and direct consultations with members of equity-deserving groups to fill identified information gaps. Where possible, qualitative and quantitative information from prior consultations and existing institutional initiatives addressing EDI and decolonization at the university were incorporated into the Dimensions work. In January 2022, summarized results of the assessment work were shared during virtual engagement sessions with members of equity-deserving groups, as well as through a virtual engagement platform that remains available to the wider UBC research community. Feedback collected from the virtual sessions and engagement platform will help inform the next stages of the Dimensions project, including the development of an institutional action plan and an application for recognition from the federal Dimensions program.

Scholarly Integrity Initiative

The Scholarly Integrity Initiative is led by the VPRI and supported by an advisory committee of members from across our campuses. It supports UBC researchers and scholars in all aspects of conducting research responsibly and was made possible through support from UBC's Academic Excellence Funds. The initiative is inspired by UBC's Scholarly Integrity Policy and informed by the Tri-Agency Framework on the Responsible Conduct of Research. In 2021/22, the initiative launched and promoted a new Foundations of Responsible Conduct of Research course on Canvas. Available to the UBC research community, this self-paced course aims to increase understanding of our responsibility as UBC scholars, providing

an opportunity to reflect on our own research practices and to practice navigating ethical dimensions of research using a systematic decision-making framework. The course includes a series of videos created with faculty members, students and staff across our two campuses, and was the focus of one of the episodes of the UBC *Blue and Gold* podcast series with UBC President and Vice-Chancellor, Santa J. Ono.

UBC Open Access Fund and Scholarly Publication Fund for Humanities and Social Sciences Research

The VPRI continues to be a partner in these two funds, which are administered by UBC Library, to support the open sharing of research and scholarship. This past year, 19 open access publications by 19 different researchers across 14 UBC departments or schools were funded through the Open Access Fund. UBC's Scholarly Publication Fund funded 26 awards, including nine subventions and 17 awards for other costs of publication such as indexing and image clearances.

Safeguarding your Research

The VPRI continued to offer support and resources to help researchers ensure that they are able to safeguard their research from potential risks and threats. In June 2021, the Government of Canada released new National Security Guidelines for Research Partnerships developed in collaboration with the Government of Canada-Universities Working Group. The federal government introduced these guidelines to ensure the Canadian research ecosystem is as open as possible and as secure as necessary. To meet new requirements around risk assessment for NSERC Alliance Grants with private sector partners, the University-Industry Liaison Office provides a validation service and online resources for risk assessment questionnaires and mitigation plans should they be needed.

The VPRI also collaborated with colleagues at Simon Fraser University, the University of Alberta, the University of Calgary and the University of Victoria to host the Research Security Workshops series that began in March 2021. A series of three engaging and thought-provoking one-hour conversations about evolving geopolitical risks and their affect on university research were held, involving speakers and panelists from Innovation, Science & Economic Development (ISED), the Canadian Security Intelligence Service, and academic colleagues from the host institutions. More than 260 different people registered for one or more of the three sessions.

Research Data Management

The VPRI is collaborating with the UBC Office of the Chief Information Officer and UBC Library to coordinate the development of a Research Data Management (RDM) Strategy in consultation with the UBC research community. The strategy will respond to the Tri-Agency Policy on RDM that launched at the end of March 2021 and will provide a framework to support UBC researchers in meeting new requirements to complete data management plans when applying to Tri-Agency research funding opportunities. UBC Advanced Research Computing (ARC) hosted a series of workshops on the policy and its requirements in the fall and convened a town hall session followed by focus groups with faculty, staff and students to help shape the strategy and the future of RDM at UBC. Findings from these consultations are informing the strategy development.

A separate data management planning (DMP) working group is also developing tools, templates and resources as well as coordinating processes to support UBC researchers to meet the new data management planning requirements. The DMP requirements outlined in the Tri-Agency policy will initially apply to a subset of funding opportunities starting in April 2023.

The value of sound research data management is also being promoted by three teams from UBC that were awarded funding through the Data Champions Pilot Project Call from the Digital Research Alliance of Canada in early 2022. The pilot project funds teams to develop activities at the local, regional and/or national level to advance awareness, understanding, development and adoption of research data management (RDM) tools, best practices and resources in Canada. UBC projects include the UBC Okanagan RDM collaboration involving ARC, a team based out of the Dynamic Brain Circuits Research Excellence Cluster, and a collaboration between UBC, the BC Children's Hospital Research Institute and the Centre for International Child Health.



Engaging with Indigenous Partners

The VPRI's commitment to Indigenous engagement on the Vancouver campus is most clearly evidenced through the activities of the Indigenous Research Support Initiative (IRSI). Created in 2016 and supported by an Indigenous Advisory Committee comprised of community members, and UBC Indigenous and non-Indigenous faculty, IRSI provides professional support and services for Indigenous research collaborations.

In 2021/22 key partnerships, activities and events included the following:

Indigenous Finance Guidelines

In December 2021, IRSI and the Vice-President Finance & Operations portfolio formally launched the UBC Indigenous Finance Guidelines (IFG). The IFG were created with the guidance and input of Indigenous Elders and Knowledge Holders and respond to frustrations expressed to IRSI by Indigenous partners and Elders, as well as UBC students, staff and faculty, with the process of compensating Indigenous partners.

In response to these frustrations, IRSI piloted a flexible payment process at community gatherings beginning in 2017 and this pilot ultimately led to the creation of Indigenous Finance Guidelines. The guidelines review current payment practices at UBC and highlight some of the disparities in standard processes for the disbursement of funds to Indigenous partners. The IFG also describe the alternative, flexible payment process piloted by IRSI and conclude with a recommended financial process for wider adoption at UBC. This recommended process includes a table of payment guidelines for respectful engagement with Indigenous Peoples.

Action #14 of the 2020 UBC Indigenous Strategic Plan calls for UBC to "Provide Indigenous Peoples engaged in research with equitable and timely compensation that recognizes the significant value of their participation to the research process and outcomes." The Indigenous Finance Guidelines meet call to Action #14 of the ISP and significantly change the landscape with regard to equitable and timely compensation to Indigenous partners.

Recognition and gratitude are extended to the many advisory groups, units and portfolios at UBC as well as Indigenous Elders and partners who have supported and advocated for the Indigenous Finance Guidelines by providing extensive input, feedback and advice.

Tsilhqot'in Nation and UBC Sign Memorandum of Understanding

In December 2021, a new "umbrella" MOU was signed between Tsilhqot'in National Government (TNG) and UBC, building on the 2020 MOU between TNG and the Centre for Environmental Assessment Research (CEAR) at UBC Okanagan. The signing demonstrates TNG's and UBC's commitments to lighting new paths towards reconciliation and recognition of Indigenous self-determination, in the spirit of the United Nations Declaration on

the Rights of Indigenous Peoples and the advancement of UBC's Indigenous Strategic Plan.

A working group comprising TNG senior staff, the associate director of IRSI, two faculty members from CEAR and the Allard School of Law and the managing director of the University-Industry Liaison Office supported the development of the MOU, and its signing is a milestone in both the Nation's and institution's histories. It reinforces TNG and UBC as leaders in advancing Indigenous Rights and Title and could act as a model for healthy relationships between academia and Indigenous Peoples. The Tsilhqot'in National Government delegation at the UN Permanent Forum on Indigenous Issues held in New York in 2022 were approached by others aware of the agreement and looking to learn more about it.

A key feature of the MOU is to ensure that research is undertaken with cultural safety, an approach that recognizes and addresses systemic power imbalances and fosters a culture free of racism and discrimination, thus creating a safe arena for Indigenous partners. In addition, the MOU establishes a foundation for future research collaborations that incorporate Tsilhqot'in knowledge, community needs and sustainable environmental practices and opportunities within Tsilhqot'in Nen (lands).

The Tsilhqot'in Nation is comprised of six First Nation communities: Xeni Gwet'in (Nemiah Valley), Tl'etinqox (Anaham), Tl'esqox (Toosey), Yunesit'in (Stone), ?Esdilagh (Alexandria) and Tsideldel (Redstone). The Tsilhqot'in Nation is located in central British Columbia and is the first in Canada's history to secure a court declaration of Aboriginal Title to a portion of their homelands.

UBC has been working with the Tsilhqot'in Nation (TN), Tsilhqot'in National Government (TNG) and communities for a number of years on various projects, and is currently engaged in approximately 17 collaborations, most of which were initially supported through IRSI. Current research collaborations include projects focused on Indigenous-led environment impact assessment and Indigenous methodologies for effectively stewarding fish and waterways, wildlife monitoring and water governance, to name a few.

Looking Forward

(2022/23)

Last year highlighted the need to continue supporting the UBC research community through the safe resumption of in-person and on-campus research and scholarly activity. We identified specific areas of focus and goals for our portfolio, guided by UBC's strategic plan, *Shaping UBC's Next Century*, and the *Indigenous Strategic Plan*. Progress against these goals includes:

- consultations with the UBC research community that identified ongoing pandemic-related challenges and support requirements;
- initiation of an external review of the research excellence clusters program at UBC Vancouver was initiated;
- workshops and resources made available to support the safeguarding of research while upholding principles of academic freedom;
- the refocusing of the UBC Knowledge Exchange Unit following consultation with institutional stakeholders;
- the launch of Indigenous Finance Guidelines that help to better recognize the significant value of Indigenous Peoples' participation in the research process and its outcomes; and
- working groups and consultations to support the creation of an institutional research data management strategy.

For 2022/23 we've identified the following goals and priorities for our portfolio as we continue to enhance ongoing services to support research and innovation in line with institutional strategic priorities.

Strategy 6: Collaborative Clusters

Enable interdisciplinary clusters of research excellence in pursuit of societal impact

- We will conduct an external review of the UBCV Research Excellence Clusters program in the fall of 2022 to guide its future.
- We will support UBC's participation in major federal competitions, such as the Canada Biomedical Research Fund, Canada Excellence Research Chairs and Canada First Research Excellence Fund.

Strategy 7: Research Support

Strengthen shared infrastructure and resources to support research excellence

- We will continue to express to governments the need for investigator-led research.
- We will introduce new models to expand support for additional shared research platforms as part of the President's Academic Excellence Initiative. Our goal is to ensure UBC provides shared research platforms across a multitude of research and scholarship disciplines.
- As the demand for funding support continues to increase, we will work to ensure that our services maintain a high standard of delivery and meet researchers' evolving needs.

Strategy 8: Student Research

Broaden access to, and enhance, student research experiences

- We will convene discussions to enhance support for undergraduate research across both campuses.
- We will continue to express the need to governments for more higher-value graduate and postdoctoral funding.

Strategy 9: Knowledge Exchange

Improve the ecosystem that supports the translation of research into action

- We will work to enhance support for community-based collaborative and respectful research with Indigenous partners.
- We will evolve and refine Innovation UBC support for knowledge exchange in collaboration with faculty colleagues.

Strategy 10: Research Culture

Foster a strong and diverse research culture that embraces the highest standards of integrity, collegiality and service

- We will work with community to chart a mandate and course for IRSI to support UBC's Indigenous Strategic Plan.
- We will launch an action plan and apply to the federal Dimensions project for its recognition, as part of our work to nurture a more equitable, more diverse and more inclusive research environment at UBC.
- We will work with other universities and the federal government to safeguard research while ensuring principles of academic freedom are upheld.
- We will work with the UBC Library and faculty partners to provide support to researchers in response to the new Tri-Agency research data management policy.

VPRI Support at a Glance

throughout the research project lifecycle

The following units are physically located at UBC's Vancouver campus:

Animal Care, Biosafety & Radiation Safety Committees

Ensures safe and ethical conduct of research projects involving animals, biological materials and/or radioactive materials and provide necessary permits and approvals that authorize research. ors.ubc.ca/compliance

entrepreneurship@UBC

Helps UBC students, faculty, staff and alumni to commercialize their ideas and innovations through venture building.

entrepreneurship.ubc.ca

Indigenous Research Support Initiative (IRSI)

Provides research support and services to Indigenous communities and university researchers collaborating on projects and ensures that these projects are based on community-led interests, reciprocal relationships and principles of mutual accountability. irsi.ubc.ca

Innovation Partnerships

Provides sector-specific expertise to help stimulate innovation and connect UBC researchers with partners in industry, non-profit or community groups.

innovation.ubc.ca/innovation-partnerships

Institutional Programs Office (IPO)

Manages the full cycle of major federal, provincial and regional funding awards, including those offered by the Canada Foundation for Innovation (CFI), the British Columbia Knowledge Development Fund (BCKDF) and Pacific Economic Development Canada (PaciFiCan). ipo.ubc.ca

Knowledge Exchange Unit (Kx)

Builds capacity among researchers in all disciplines to develop and share impactful knowledge through connections and exchanges with external partners — including communities, government, non-profit organizations and the public.

innovation.ubc.ca/kx

Office of Research Ethics (Behavioural and Clinical)

Ensures that research at UBC achieves the highest ethical standards, provides leadership on emerging issues in research ethics, delivers training to faculty members and students, and manages regulatory compliance for studies funded by the U.S. Public Health Service. ethics.research.ubc.ca

Office of Research Services (ORS)

Helps researchers find funding opportunities, obtains the institutional signature for grant applications, manages ongoing compliance requirements, sets up research accounts and spending limits, transfers research funds and registers clinical trials. ors.ubc.ca

Office of Research Prizes and Awards

Offers information, strategic advice and nomination support for major external research prizes and awards, and manages UBC's internal faculty research awards program.

prizes.research.ubc.ca

Research Finance

Ensures all sponsored research and specific-purpose funds are spent in compliance with policies, prepares and submits financial reports to funders and helps to resolve any funding issues. finance.research.ubc.ca

Support Programs to Advance Research Capacity (SPARC)

Provides strategic research development services and resources designed to develop capacity, build collaborations and increase Tri-Agency funding application success rates. sparc.ubc.ca

UBC Press

Publishes high-quality works of original scholarship as Canada's leading social sciences publisher. ubcpress.ca

University-Industry Liaison Office (UILO)

Facilitates research partnerships with industry, government and non-profit organizations through research contracts and agreements. Patents and licenses discoveries and inventions made by UBC researchers, and forms spin-off companies. uiло.ubc.ca



SHARED RESEARCH PLATFORMS:

Advanced Research Computing (ARC)

Supports high-performance computing and data management needs, and provides consultations, expertise and access to digital research infrastructure. arc.ubc.ca

Animal Care Services

Provides research support, veterinary services, compliance, training, procurement, animal housing, technical services and administrative support. animalcare.ubc.ca

Facility for Infectious Disease and Epidemic Research (FINDER)

Provides access to laboratories and services for Containment Level 3 scientific experiments. finder.ubc.ca

Plant Care Services

Provides greenhouse and field facilities for scientific experiments, training, consultation on experimental design and operational support for UBC researchers and external users. plantcare.ubc.ca

Sequencing and Bioinformatics Consortium

Provides state-of-the-art facilities, training and support for UBC researchers and external partners through all stages of sequencing projects from planning to analysis.

sequencing.ubc.ca

Upright Open MRI

Offers a full range of user services, including study setup, MRI protocol development, custom pulse sequences, quantitative image analysis and support for Tri-Agency funding applications. uprightopenmri.ubc.ca

The following units are physically located at UBC's Okanagan campus:

entrepreneurship@UBCO

Offers UBC Okanagan students, faculty, staff and recent graduates training and mentorship support to explore their startup ideas, build connections within the Okanagan innovation ecosystem, and develop the skill sets needed to launch a successful new venture.

entrepreneurship.ok.ubc.ca

Office of Research Services (ORS)

Provides research facilitation and administrative services. Helps researchers find funding and provides grant program and application support. Supplies the institutional signature for grant applications, manages new and ongoing compliance requirements, and sets up and provides ongoing maintenance for research accounts. ors.ok.ubc.ca

UBC Survive and Thrive Applied Research (UBC STAR)

A research and development hub powered by a network of UBC researchers working collaboratively with academic and industry partners to develop technologies, strategies and standards for application in defence, sport and health. star.ubc.ca

SHARED RESEARCH PLATFORMS:

UBCO Animal Care Services

Provides research support, veterinary services, compliance, training, procurement, animal housing, technical services and administrative support. animalcare.ubc.ca

Cleantech Hub

A central innovation space to catalyze industry-academic collaborations that develop clean technologies, help Canadian companies access domestic and international markets, and support Canada's transition to a low-carbon economy.

cleantech.ubc.ca

Fipke Laboratory for Trace Element Research (FiTER)

State-of-the-art research facility specializing in trace element analysis and electron microscope imaging. filterubco.ca

UBCO Plant Growth Facility

State-of-the-art greenhouse that opened in September 2020. This 5,000 square foot facility provides ample space for large projects while allowing for isolation of different growth and treatment protocols. wine.ubc.ca/plant-growth-facility

Research Data Centre (RDC)

A Statistics Canada initiative that provides researchers with a secure campus facility to access microdata from population and household surveys, administrative data holdings and linked data. research.ok.ubc.ca/rdc



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Vice-President
Research & Innovation

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18 January 2023

To: Vancouver Senate

From: Rella Ng, Associate Vice-President Enrolment Services & Registrar

Re: 2023/24 Academic Year

Key dates for the 2023/24 **Winter Session** are as follows:

Winter Session Term 1

Term 1 begins	Tuesday, September 5, 2023
Mid-term break	November 13-15, 2023*
Last day of Term 1 classes	Thursday, December 7, 2023
First day of exams for Term 1	Monday, December 11, 2023
Last day of exams for Term 1	Friday, December 22, 2023
Number of Teaching Days	63

Winter Session Term 2

Term 2 begins	Monday, January 8, 2024
Mid-term break	February 19-23, 2024**
Last day of Term 2 classes	Friday, April 12, 2024
First day of exams for Term 2	Tuesday, April 16, 2024
Last day of exams for Term 2	Saturday, April 27, 2024
Number of Teaching Days	63

*Inclusive of Remembrance Day (November 11) statutory holiday observed in British Columbia (on November 13).

**Inclusive of Family Day (February 19) statutory holiday observed in British Columbia.

Key dates for the 2024 **Summer Session** are as follows:

Summer Session Term 1

Term 1 begins	Monday, May 13, 2024
Last day of Term 1 classes	Thursday, June 20, 2024
First day of exams for Term 1	Monday, June 24, 2024
Last day of exams for Term 1	Friday, June 28, 2024
Number of Teaching Days	28



Summer Session Term 2

Term 2 begins	Tuesday, July 2, 2024
Last day of Term 2 classes	Friday, August 9, 2024
First day of exams for Term 2	Tuesday, August 13, 2024
Last day of exams for Term 2	Saturday, August 17, 2024
Number of Teaching Days	28

Please note that graduate and professional programs may have their own term dates as set out in the Academic Calendar.

Draft term and examination dates for academic years up to and including 2026/27 may be viewed on the Senate website: <https://senate.ubc.ca/vancouver/termdates>.