



Vancouver Senate

THE EIGHTH REGULAR MEETING OF THE VANCOUVER SENATE FOR THE 2014/2015 ACADEMIC YEAR

WEDNESDAY, 15 APRIL 2015

6:00 P.M.

ROOM 182, IRVING K. BARBER LEARNING CENTRE, 1961 EAST MALL

1. Senate Membership – Dr Kate Ross

- a. Introduction of Student Representatives to Senate for 2015-2016 (information) (docket page 3)
- b. Call for Nominations for two (2) Student Members to Serve on the Senate Nominating Committee (information)
- c. Election of Vice-Chair of Senate (approval)

The Secretary has issued a call for nominations for Vice-Chair of Senate for a term of one (1) year pursuant to Section 37 (1)(a) of the *University Act*. Any senators interested should email their intent to stand for election to christopher.eaton@ubc.ca by 12 noon on 15 April 2015. Should there be more than one candidate, an election will be held under this item after short statements of interest are heard by the Senate from each candidate (or their representative should they be unable to attend the meeting).

2. Minutes of the Meeting of 18 March 2015 – Prof. Arvind Gupta (approval) (docket pages 4-24)

3. Business Arising from the Minutes – Prof. Arvind Gupta

4. Remarks from the Chair and Related Questions – Prof. Arvind Gupta

- a. General Remarks (information)
- b. Budget Update (information)

5. Tributes Committee – Dr Sally Thorne

Memorial Minutes for Dr Sydney Friedman, The Rev. Prof. William Nicholls, and Dr Anthony Scott (approval) (docket pages 25-28)

6. Admissions & Curriculum Committees – Mrs Carol Jaeger

- a. New Dual Degrees Program Option: Master of Architecture/Master of Landscape Architecture (approval) (docket pages 29-41)

- b. Expansion of Vantage College to Bachelor of Applied Science (Vancouver/Okanagan) and Bachelor of Management (Okanagan) Programs (approval) (docket pages 42-82)

7. Curriculum Committee – Mrs Carol Jaeger

Curriculum proposals from the Faculties of Applied Science, Arts, Forestry Graduate and Postdoctoral Studies (Land & Food Systems and Science), Land and Food Systems, and Science (approval) (docket pages 83-107)

8. Nominating Committee – Dr Richard Tees

- a. Composition of the Student Awards Committee (approval) (docket page 108)
- b. Change in Name of the Student Awards Committee (approval) (docket pages 109-110)
- c. Changes to Committee Memberships (approval) (docket page 111)
- d. Appointments to the President's Advisory Committee for the Selection of a Vice-Provost and Associate Vice-President Career & Personal Education (approval) (docket page 112)

9. Student Awards Committee – Mr Graham Beales

- a. New and Revised Awards (approval) (docket pages 113-118)

10. Faculty of Pharmaceutical Sciences – Dean Michael Coughtrie

- a. John McNeill Excellence in Health Research Mentorship Award (approval) (docket pages 119-122)

11. Faculty of Science – Dean Simon Peacock

- a. UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award (approval) (docket pages 123-130)

12. Report from the Provost – Dr David H. Farrar

- a. Establishment of the Reichwald Family Medicine Chair in Preventative Medicine (approval) (docket page 131)

13. Other Business

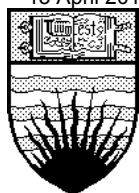
Motion of Censure – Dr Stanley Knight (approval) (docket pages 132-135)

14. IN CAMERA – Tributes Committee – Dr Sally Thorne

Honorary Degrees (approval) (to be circulated at meeting)

Section 16 (b) of the *Rules and Procedures of the Vancouver Senate* states that meetings will adjourn no later than 8:30 p.m. Regrets: Telephone 604.822.5239 or e-mail: facsec@mail.ubc.ca

UBC Senates and Council of Senate website: <http://www.senate.ubc.ca>



The University of British Columbia – Vancouver Senate

Members of Senate

Effective 15 April 2015

EX OFFICIO

Chancellor	Mr. Lindsay Gordon
President, Chair	Prof. Arvind Gupta
Secretary	Dr. Kate Ross
Academic Vice-President	Dr. David Farrar

DEANS OF FACULTIES

Applied Science	Prof. Marc Parlange
Arts	Dr. Gage Averill
Commerce and Business Administration	Prof. Robert Helsley
Dentistry	Dr. Charles Shuler
Education	Dr. Blye Frank
Forestry	Dr. John Innes
Graduate and Postdoctoral Studies	Dr. Susan Porter
Land and Food Systems	Dr. Rickey Yada
Law	Prof. Mary Anne Bobinski
Medicine	Dr. Gavin C.E. Stuart
Pharmaceutical Sciences	Dr. Michael Coughtrie
Science	Dr. Simon Peacock

PRINCIPALS OF COLLEGES

College of Health Disciplines	Dr. Louise Nasmith
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ELECTED BY THE FACULTIES

Applied Science	Dr. William Dunford Dr. André Ivanov
Arts	Dr. C.W. Marshall Dr. Glen Peterson
Commerce and Business Administration	Dr. David Gillen Dr. Frieda Granot
Dentistry	Prof. Bonnie Craig Dr. Lance Rucker
Education	Dr. Nancy Perry Dr. Claudia Ruitenberg
Forestry	Dr. Stavros Avramidis Dr. Peter L. Marshall
Graduate and Postdoctoral Studies	Prof. Thomas Schneider Dr. Lawrence Walker
Land and Food Systems	Prof. Andrew Riseman Vacancy
Law	Prof. Benjamin Goold Vacancy
Medicine	Dr. Paul A. Keown Prof. Christian Naus
Pharmaceutical Sciences	Dr. Corey Nislow Dr. Abby Collier
Science	Dr. Santokh Singh Dr. Don Witt

ELECTED BY THE JOINT FACULTIES

Dr. Perry Adebar	Mrs. Carol Jaeger
Dr. Richard Anstee	Dr. Philip Loewen
Dr. Kenneth Baimbridge	Dr. Bonita Sawatzky
Dr. Peter T. Choi	Dr. Robert Sparks
Dr. Susan Forwell	Dr. Katja Thieme
Dr. Paul G Harrison	Dr. Sally Thorne

ELECTED BY THE CONVOCATION

Mr. Tariq Ahmed	Dr. Stanley B. Knight
Ms. Erin Biddlecombe	Dr. Bikkar S. Lalli
Dr. Lawrence Burr	Mr. Haymen Leong
Ms. Andrea Dulay	Mr. William B. McNulty
Dr. John Gilbert	Ms. Shannon Sterling
Mr. Séan Haffey	Prof. Richard Tees

REPRESENTATIVES OF AFFILIATED COLLEGES

St Mark's College	Dr. Peter Matthew Meehan
Vancouver School of Theology	Rev. Dr. Richard Topping
Regent College	Dr. Rod Wilson
Carey Theological College	Rev. Dr. Colin Godwin

LIBRARIAN

Dr. Ingrid Parent, University Librarian

ELECTED BY THE PROFESSIONAL LIBRARIANS

Mr. Kevin Madill, Music Librarian

DIRECTOR OF CONTINUING EDUCATION

Dr. Judith Plessis

ELECTED BY THE STUDENTS

(Term from April 1, 2015 to March 31, 2016. One representative elected by each faculty, and five members at-large)

Applied Science	Mr. Armin Rezaiean-Asel
Arts	Mr. Daniel Munro
Commerce and Business Administration	Mr. Tyler Tanaka
Dentistry	Mr. Sukhpaul Gurm
Education	Ms. Mélanie Chartrand
Forestry	Ms. Sonam Vohra
Graduate and Postdoctoral Studies	Ms. Sarah Simon Mr. Nick Dawson
Land and Food Systems	Ms. Ava Maleki
Law	Mr. Josh Abak
Medicine	Mr. Karan D'Souza
Pharmaceutical Sciences	Mr. Jacky Tang
Science	Ms. Kaitlyn Melton
Members at-large	Mr. Marjan Hatai, Arts Ms. Jenna Omassi, Arts Mr. Gurvir Sangha, Arts Mr. Aaron Bailey, Science Mr. Eric Zhao, Medicine



VANCOUVER SENATE

MINUTES OF 18 MARCH 2015

DRAFT

Attendance

Present: Mr C. Roach (Vice-Chair), Dr K. Ross (Secretary) Dr P. Adebar, Mr T. Ahmed, Dr R. Anstee, Dean G. Averill, Dr K. Baimbridge, Mr G. Beales, Dean M. Bobinski, Dr A. Collier, Dean M. Coughtrie, Dr A. Dulay, Dr D. Farrar, Dr S. Forwell, Dean B. Frank, Ms B. Gershkovitch, Dr J. Gilbert, Dear D. Gillen, Chancellor L. Gordon, Dr F. Granot, Mr S. Gurm, Dr P. Harrison, Dean R. Helsley, Dean J. Innes, Dr A. Ivanov, Mrs C. Jaeger, Ms J. Jagdeo, Ms N. Karimi, Dr P. Keown, Ms A. Kessler, Dr S. Knight, Dr B. Lalli, Mr C. Leonoff, Dr P. Loewen, Mr K. Madill, Dr P. Marshall, Mr W. McNulty, Dr P. Meehan, Mr D. Munro, Dr L. Nasmith, Dr I. Parent, Dean M. Parlange, Dean S. Peacock, Dr N. Perry, Dr G. Peterson, Dr J. Plessis, Dr A. Riseman, Dr L. Rucker, Dr C. Ruitenbergh, Dr T. Schneider, Dr R. Sparks, Dr R. Tees, Dr S. Thorne, Mr R Zhao.

Regrets: Prof. A. Gupta (President), Dr S. Avramidis, Mr A. Bailey, Ms E. Biddlecombe, Dr L. Burr, Mr Casey Chan, Ms Collyn Chan, Ms M. Chartrand, Dr P. Choi, Prof B. Craig, Dr W. Dunford, Dr C. Godwin, Prof. B. Goid, Mr S. Haffey, Mr H. Leong, Dr C. Marshall, Dr C. Naus, Dr C. Nislow, Dean S. Porter, Dr B. Sawatzky, Dean S. Shuler, Dr S. Singh, Ms S. Sterling, Dean G. Stuart, Dr K. Thieme, Dr R. Topping, Ms S. Vorha, Dr L. Walker, Mr J. Wiebe, Dr R. Wilson, Dr D. Witt, Dean R. Yada.

Recording Secretary: Mr C. Eaton.

Call to Order

The Vice-Chair of Senate, Mr Christopher Roach, called the seventh regular meeting of the Vancouver Senate for the 2014/2015 academic year to order at 6:05 pm.

Senate Membership

The Registrar, Dr Kate Ross, declared the seat of Professor Isabel Grant, Faculty Representative for the Faculty of Law, vacant due to her resignation from Senate.

Minutes of the Previous Meeting

Richard Tees	}	<i>That the Minutes of the Meeting of 18 February</i>
Brenda Gershkovitch		<i>2015 be adopted as presented.</i>

Approved

Business Arising from the Minutes

ADMISSIONS COMMITTEE

With consent of Senate, the Vice-Provost, Dr Angela Redish advised that as a clerical error was confirmed for the enrolment targets approved for the faculties of Dentistry, Medicine, and

Pharmaceutical Sciences, and for non-degree students and residents: 24 MD/PHD students were not included in the total for the Faculty of Medicine (although they are also students in the Faculty of Graduate and Postdoctoral Studies), and 1305 residents were mistakenly included in the undergraduate student totals for the three faculties.

By general consent, the previously approved resolution was amended to add 24 FTE to the target for the Faculty of Medicine for MD/PHD program, to transfer all FTE totals for residents from the undergraduate student targets for faculties of Dentistry, Medicine, and Pharmaceutical Studies to the target for residents, and to increase the University's total targeted enrolment by 24.

CURRICULUM COMMITTEE

Mr Eaton confirmed that the issue noted with the requirements for the Minor in Honours Mathematics conflicting with the general Minor in Science requirements for the Bachelor of Applied Science program was corrected via a category 2 curriculum change.

OTHER BUSINESS

Mr Eaton confirmed that Vice-President Miles was travelling and thus was not available for this meeting. He agreed to confirm her availability for a future meeting of Senate.

Presentation of Certificates of Appreciation to Student Representatives from 2014-2015

As Acting President, Provost David Farrar presented certificates of thanks to student members of Senate who were completing their terms of office on 31 March 2015; it was noted that some students had been or were standing for re-election.

The Vice-Chair reminded outgoing student senators that they were to remain on their assigned committees until replaced.

Report from the Provost

ESTABLISHMENT OF THE DAVID R. CHARITON CHAIR IN COMPUTER SCIENCE

David Farrar	}	<i>That Senate approve the establishment of a new Chair within the Department of Computer Science, under the name David R. Cheriton Chair in Computer Science.</i>
Philip Loewen		

The Provost spoke to the substantial nature of the donation to UBC by UBC's alumnus and google investor Dr Cheriton, and the opportunities this new chair would give to UBC in Computer Science.

Approved

INTRODUCTION OF NEW ASSOCIATE VICE-PRESIDENT, EQUITY AND INCLUSION

The Provost introduced the new AVP Equity and Inclusion Dr Sara-Jane Finlay, outlining her academic background and work at the University of Toronto.

Dr Finlay stated that she would appreciate to meet and get to know UBC.

Dr Farrar advised that her appointment coincides with a focus on equity and inclusion in response to the action plan that came out of the taskforce on the president's taskforce on equity and gender-based violence following the chants in the Sauder School of Business. The Provost noted that that taskforce led to 14 recommendations that came to the administration, which resulted in an action plan including recommendations around curriculum that the Provost committed to bring forward to Senate.

Academic Policy Committee

Disestablishment of the College for Health Disciplines

Paul Harrison	}	<i>That Senate approve the disestablishment of the College of Health Disciplines and the transfer of its current responsibilities to the Office of the Provost, effective July 1, 2015.</i>
Michael Coughtrie		

Senator Nasmith explained that the proposal outlined both the rationale for the disestablishment of the College and for the transfer of its current responsibilities.

Senator Baimbridge stated that the document made clear that some responsibilities would go to the Associate-Provost Health as set out in a blueprint for UBC Health and asked what the status was for that initiative and this appointment.

Dr Farrar advised that Dr Nasmith currently held an appointment as Associate-Provost Health. The plan contemplates an office of a Vice-Provost Health with a number of structures within it, including a large emphasis on education. The Provost's office has a responsibility to support faculties and this change would allow us to better support the initiatives currently within the College. There is also a research and a practice office envisioned. We are presently considering continuing the current Dean of Medicine as Vice-Provost Health as part of the Academic Health Sciences Network. The Provost further advised that the Vice-Provost Health office would be a virtual structure to integrate our health activities around education, research, and practice. The University has spent the past 50 years trying to integrate its health plans. We at first contemplated academic structural changes, but the complexity of moving things through our structures was daunting.

Senator Thorne was supportive of the dissolution but acknowledged the successes of the College and the leadership of John Gilbert as its first principal and Louise Nasmith as its second.

Senator Coughtrie advised that as a member of the group who reviewed the College, he noted the high regard the group had for the Principal and her work.

Senator Forwell noted that the idea behind the College was to pull things together, but under a formal academic structure. The structure we are moving into is less entrenched in the academy but more in the administration. It would be less solid as a result. She asked if this would threaten the interdisciplinary and education mission of the College.

The Provost replied that universities change and can and do move in different directions. Our structures provided rigidity and universities are among the oldest institutional bodies in continuous existence on earth. Health is one of the greatest issues facing western democracies, and our structures should not stand in the way of working in this area. The College had tables where those discussions were rich and stimulating but it wasn't always possible to act on those initiatives with the same authority that could be at the Academic Vice-President's office. A new faculty was not viewed as an option as it would subsume more than half of the University.

Dr Nasmith advised that the College did not have the ability to make good decisions and then act on them. We have moved beyond courses and activities and into integration in practice education.

Senator Gilbert noted that each year, the Librarian has presented to Senate a report on the activities of the Library, and that it served a useful function for Senate to hear and understand the issues facing the Library. He asked the Provost if on an annual basis a similar report on health sciences at UBC could be produced for Senate.

The Provost agreed.

Senator Ruitenberg asked why a course was being deleted as part of the proposal.

Dr Nasmith advised that the ethics course was being deleted as its content was being integrated into other programs.

Dr Marshall advised that this was in the proposal for background but not part of the proposal.

Senator Gurm noted that he had participated in the College and found it to be beneficial, but as a member of its Council he also realized its limitations and supported its dissolution at this time.

Approved

Establishment of the Institute for the Oceans and Fisheries and Disestablishment of the Fisheries Centre

Paul Harrison
Richard Anstee

} *That Senate approve and recommend to the Board of Governors the establishment of the Institute for the Oceans and Fisheries in the Faculty of Science effective July 1, 2015;*

That the administration of the Fisheries Streams within the Resource Management and Environmental Studies (RMES) graduate programs be transferred from the Fisheries Centre to the Institute for the Oceans and Fisheries, effective July 1, 2015; and,

That Senate approve and recommend to the Board of Governors the disestablishment of the Fisheries Centre in the Faculty of Science effective July 1, 2015.

Dean Peacock noted that this proposal was a broadening of the Fisheries Centre and a name change. The Fisheries Centre has a worldwide reputation and the new Institute was designed to broaden that reputation to beyond just fisheries. It would bring forward faculty from across UBC who work in a variety of departments and faculties. He advised that once one substantive change would be that the Institute's faculty would have departmental academic unit homes rather than within the unit.

Chancellor Gordon suggested that broadening the mandate made sense, but asked if we had considered how the Institute would compete or fit with other universities and organizations.

Dean Peacock replied that we had looked at programs around the world, and realized that UBC was not organized properly to reflect our collective strength. He described the University of Victoria as a competitor in a way, although noted that UBC had around 4 times the research strength within the proposed Institute. He further noted that the University of Victoria was also a collaborator ; for instance, UBC will work with them on Canada First Research Excellence Fund (CFREF) applications in this area. This proposal was in part to have UBC's existing strengths better recognized.

Approved

Establishment of the Institute for Critical Indigenous Studies

Paul Harrison
Susan Forwell

} *That Senate approve and recommend to the Board the establishment of the Institute for Critical*

Indigenous Studies in the Faculty of Arts; and,

*That the administration of the First Nations and
Indigenous Studies and the First Nations and
Endangered Languages Programs be transferred
to the Institute for Critical Indigenous Studies.”*

Senator Harrison noted that there has been remarkable growth in the study of First Nations and indigenous studies at UBC over the past number of years.

Dean Averill noted that in part this proposal was to give a home to the (First Nations and Indigenous Studies (FNIS) and First Nations and Endangered languages (FNEL) programs, and more to strengthen UBC’s commitment to Indigenous Studies.

Senator Ahmed asked if there was a concern with the acronym of the unit being the same as a Syrian terrorist organization.

Dean Averill replied that this was not a strong concern; it was not named after them nor after the Egyptian Goddess. He suggested that in practice we would refrain from using the name as an acronym.

Senator Forwell asked about the inclusion of “critical” in the name, specifically with regard to critical studies.

Dean Averill advised that “critical” was chosen to differentiate the unit’s focus from those that were more celebratory and less critical in nature. The programs themselves are not labeled as critical. We considered many alternatives and none captured the nature of the program in the way that the word critical did, and within the academy this is a well-understood modifier.

Senator Forwell agreed, but asked if this would be understood by outside audiences.

Dean Averill replied that given the very contested terrain in Canada, it was important that we made clear to the academy what the nature would be of our proposed unit.

Approved

Admissions Committee

Mrs Carol Jaeger presented on behalf of the Senate Admissions Committee.

**SUSPENSION OF ADMISSION: BACHELOR OF DENTAL SCIENCE IN DENTAL HYGIENE, DEGREE
Completion Option, Category 2**

Carol Jaeger	}	<i>That Senate approve suspension of admission to the Bachelor of Dental Science in Dental Hygiene Degree Completion Option Category 2, effective for the 2016 Winter Session and thereafter.</i>
Lance Rucker		

Senator Jaeger noted that there were many pathways for entry into the program. The concern was for the quality of the program being offered at pathway institutions and UBC needed time to evaluate those programs.

Approved

Admission & Curriculum Committees

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

See Appendix A: Applied Masters Programs and Courses

Dr Marshall explained that these programs followed the platform and pillar model set out the previous month for engineering graduate professional programs.

MASTER OF ENGINEERING LEADERSHIP IN DEPENDABLE SOFTWARE

Peter Marshall	}	<i>That the new Master of Engineering Leadership (M.E.L.) in Dependable Software Systems program and its associated new and revised courses be approved.</i>
Carol Jaeger		

Senator Kessler asked if the admission requirement for work experience requirements could not be also met by additional coursework.

Senator Jaeger suggested that this paragraph was redundant and that there was additional material that set out how students could potentially make up with academic and work.

By general consent, the proposal was amended to strike the conflicting section under Admission requirements on page 121 relating to prior work experience.

In response to a question, Mrs Jaeger confirmed that the intent was to offer the programs starting in January 2015.

Senator Ahmed asked what the actual credential name would be and how it would be appreciated, noting that in the past we created a “MELNAME” for the Master of Engineering Leadership in Naval Architecture and Marine Engineering, but that these degrees would be simply Masters’ of Engineering Leadership (MEL).

Mr Eaton replied that their intent would be to call the credential the MEL with various specializations indicated by their names or further initials.

Senator Forwell asked what the relationship would be with the Faculty of Graduate and Postdoctoral Studies for these students.

Senator Jaeger replied that the programs would be administered and awarded through the Faculty of Applied Science directly, in a similar way to how the Master of Engineering was administered.

Approved as
amended

MASTER OF ENGINEERING LEADERSHIP IN GREEN BIOPRODUCTS

Peter Marshall	}	That the new Master of Engineering Leadership
Carol Jaeger		(M.E.L.) in Green BioProducts program and its
		associated new course code and new courses

By general consent, the proposal was amended to strike the conflicting section under Admission requirements relating to prior work experience.

Approved as
amended

MASTER OF ENGINEERING LEADERSHIP IN INTEGRATED WATER MANAGEMENT

Peter Marshall	}	<i>That the new Master of Engineering Leadership</i>
Carol Jaeger		<i>(M.E.L.) in Integrated Water Management</i>
		<i>program and its associated new course code and</i>
		<i>new courses be approved.</i>

By general consent, the proposal was amended to strike the conflicting section under Admission requirements relating to prior work experience.

Approved as
amended

MASTER OF ENGINEERING LEADERSHIP IN URBAN SYSTEMS

Peter Marshall }
Carol Jaeger *That the new Master of Engineering Leadership (M.E.L.) in Urban Systems program and its associated new course code and new courses be approved.*

By general consent, the proposal was amended to strike the conflicting section under Admission requirements relating to prior work experience.

Approved as
amended

MASTER OF HEALTH LEADERSHIP AND POLICY IN SENIORS CARE

Peter Marshall }
Carol Jaeger *That the new Master of Health Leadership and Policy (M.H.L.P.) in Seniors Care program and its associated new courses be approved.*

Senator Harrison noted that this was yet another new credential and asked if further specializations under that credential could be developed.

With consent of Senate, Dr Elizabeth Croft, Associate Dean of the Faculty of Applied Science replied, stating that the Faculty would be open to that if Nursing was to propose further programs under the M.H.L.P. credential.

Approved

Curriculum Committee

Dr Peter Marshall presented.

MARCH CURRICULUM REPORT

See Appendix B: Curriculum Report

Peter Marshall }
Robert Sparks *That the new courses and new course code brought forward by the faculties of Graduate and Postdoctoral Studies (Arts), Land and Food Systems, and Medicine be approved.*

Dr Marshall explained that the IHHS courses presently in the College of Health Disciplines were being moved to the faculties where their instructors had their primary appointments, to enable the decision approved earlier in this meeting to disband the college.

Approved

Student Awards Committee

The Committee Chair, Mr Graham Beales, presented.

FEBRUARY AWARDS REPORT

See Appendix C: Awards Report

Graham Beales	}	<i>That Senate accept the awards as listed and forward them to the Board of Governors for approval; and that letters of thanks be sent to the donors.</i>
Richard Anstee		

Mr Beales noted that we had 8 new awards and 36 revisions.

Senator Ahmed asked if the UBC Law Student Emergency Award (award #8539), which was proposed to be broadened to include graduate students, had ever been exhausted.

The Dean of Law replied that she was unsure, but the change was proposed to better implement the original intent of the donor.

Approved

Other Business

Senator Knight gave notice of a motion to censure the Athletics Management Committee.

The Vice-Chair asked that Senator Knight present a written copy of his motion to the Secretary.

Adjournment

There being no further business, the meeting was adjourned at 7:17 pm.

Appendix A: Applied Programs and Courses

FACULTY OF APPLIED SCIENCE

New Programs:

Master of Engineering Leadership in Dependable Software Systems
Master of Engineering Leadership in Green BioProducts
Master of Engineering Leadership in Integrated Water Management
Master of Engineering Leadership in Urban Systems
Master of Health Leadership and Policy in Seniors Care

New Subject Codes:

GBPR (Green BioProducts)
IWME (Integrated Water Management Engineering)
URSY (Urban Systems)

New and Revised Courses:

EECE 513 (3) Error Resilient Computing Systems
EECE 514 (3) Software Verification and Testing
GBPR 500 (6) Building Blocks of Forest Biomass
GBPR 501 (3) Biomass Fractionation Chemistry
GBPR 502 (3) Sustainable BioMaterial from Forest Biomass
GBPR 503 (3) Bioenergy and Biorefinery
IWME 501 (3) Environmental Fluid Mechanics
IWME 502 (3) Engineering Hydrology
IWME 503 (3) Chemical and Biological Industrial Water Treatment Design
IWME 504 (3) Water and Wastewater Management Strategies
IWME 505 (3) Water Resources Systems Planning and Management
URSY 510 (3) Urban Systems and Society
URSY 520 (3) Urban Systems Planning
URSY 530 (3) Urban Systems Engineering
URSY 540 (3) Urban Systems Project Delivery and Economics
URSY 550 (3) Infrastructure Asset Management
NURS 542 (3) Social Epidemiology: Special Populations;
NURS 576 (3) Topics in Social and Environmental Planning to Foster Health of Populations

Appendix B: Curriculum Report

FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

New courses and new course code

ARTS

LAIS (Library, Archival and Information Studies) Course Code

LAIS 605 (3) Seminar in Advanced Research Methods

LAIS 607 (3) Doctoral Proseminar

LAIS 608 (3) Academic and Research Practices in Library, Archival and Information Studies

LAIS 609 (3-6) d Advanced Seminar in Library, Archival and Information Studies Topics;

LIBR 506 (3) Human-Information Interaction

LIBR 507 (3) Methods of Research and Evaluation in Information Organizations

LIBR 508 (3) Information Practices in Contemporary Society

LIBR 541 (3) New Media for Children and Young Adults

FACULTY OF LAND AND FOOD SYSTEMS

New course

LFS 340 (3) First Nations Health and the Traditional Role of Plants

FACULTY OF MEDICINE

New courses

SPPH 200 (3) Understanding the Sociocultural Determinants of the Health of Populations

SPPH 300 (3) Working in International Health

SPPH 302 (3) Topics in Health Informatics for Health/Life Sciences Students

SPPH 404 (3) First Nations Health: Historical and Contemporary Issues

SPPH 406 (3) Aging from an Interdisciplinary Perspective

SPPH 408 (6) Topics in Aboriginal Health: Community-based Learning
Experience

SPPH 409 (3) International Indigenous Experiences of Colonization

SPPH 410 (3) Improving Public Health: An Interprofessional Approach to Designing and
Implementing Effective Interventions

SPPH 411 (3) Violence Across the Lifespan

Appendix C: Awards Report

New Awards:

Bachelor of International Economics (BIE) International Student Merit Scholarship – Scholarships valued up to \$15,000 each are offered to continuing international students in the Bachelor of International Economics (BIE) program at the Vancouver School of Economics. Students selected for these scholarships must have completed at least 27 credits towards their BIE degree. Students must demonstrate strong academic achievement, engagement in the program, and the potential to make a scholarly contribution within the BIE program. The scholarships are made on the recommendation of the Vancouver School of Economics. (First Award Available in the 2015/2016 Winter Session)

Bachelor of International Economics (BIE) International Student Major Entrance Scholarship – Scholarships valued up to \$15,000 each are available to outstanding international students entering the Bachelor of International Economics (BIE) program at the Vancouver School of Economics. The awards are based primarily on the students' scholarly achievement, with preference given to students who demonstrate strong leadership abilities and community involvement. Subject to continued scholarship standing, the scholarships will be renewed for a further three years of study or until the BIE degree is obtained (whichever is the shorter period). Awards are made on the recommendation of the Vancouver School of Economics. (First Award Available in the 2015/2016 Winter Session)

Joan Joyce CARTER Memorial Scholarship – Scholarships totalling \$4,800 have been made available through an endowment established by the Estate of Joan Joyce Carter. Ms. Carter passed away in 2013. The scholarships are offered to deserving students in the Peter A. Allard School of Law. The awards are made on the recommendation of the Peter A. Allard School of Law, and in the case of graduate students, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First Award Available in the 2015/2016 Winter Session)

Jack T. EDWARDS Memorial Award in Law – A \$1,000 award has been made available through an endowment established by the Edwards Family in memory of Jack T. Edwards for a student in the JD program who has demonstrated dedication to a clinical legal program at UBC Law. After serving as a fighter pilot in the RCAF reserve, Jack Edwards went on to a successful career as a lawyer in Vancouver before being appointed a Justice of the Supreme Court of British Columbia. Jack was dedicated to serving clients, as well as his profession, with integrity. The award is made on the recommendation of the Peter A. Allard School of Law. (First Award Available in the 2015/2016 Winter Session)

Hamish KIMMINS Scholarship in Forest Ecosystem Studies – Scholarships totalling \$1,500 have been made available through an endowment established by friends and colleagues of Dr. Hamish Kimmins in recognition of his dedication and commitment to forestry education and research. In keeping with his area of expertise and his commitment to graduate student mentorship, this scholarship is given to students in the Faculty of

Forestry focusing their studies at the ecosystem level, with preference given to students engaged in ecosystem-level modeling. The awards are made on the recommendation of the Faculty of Forestry in consultation with the Faculty of Graduate and Postdoctoral Studies. (First Award Available in the 2015/2016 Winter Session)

Lawrence LEWIN Bursary in Law – A \$1,000 bursary is offered annually to a UBC Peter A. Allard School of Law student entering the first year of either the JD program or a graduate degree program. Preference will be given to students from the East, West or Central Kootenay regions of BC. Mr. Lawrence J. Lewin is a UBC Faculty of Law graduate who resides in Creston (LLB 1959). The award is adjudicated by Enrolment Services. (First Award Available in the 2015/2016 Winter Session)

Alan STEEVES Memorial Award in Mechanical Engineering – A \$1,200 award has been made available through an endowment established by friends, colleagues and family to honour the memory of Alan Steeves, who was first a student, and subsequently a long-serving and highly respected IT staff member in the Department of Mechanical Engineering. Alan was a First Nations artist and a conservationist whose impact was felt beyond UBC. The award will be given to an undergraduate student in Mechanical Engineering who exhibits creativity and is involved in student teams. Preference will be given to students who self-identify as Aboriginal. The award is made on the recommendation of the Department of Mechanical Engineering. (First Award Available in the 2015/2016 Winter Session)

Gitanjali STEVENS Prize in International Relations – A \$1,000 prize is offered annually by the Goel Family Charitable Foundation to an undergraduate student studying International Relations with a focus on India. The award is made on the recommendation of the Chair of the International Relations program. (First Award Available in the 2014/2015 Winter Session)

Previously Approved Awards with Changes in Terms or Funding Source:

#451 Universal Buddhist Temple Scholarship – A \$1,500 scholarship is offered annually by the Universal Buddhist Temple to outstanding graduate students in Buddhist studies. No recipient shall receive this scholarship for more than two years. The award is made on the recommendation of the Department of Asian Studies in consultation with the Faculty of Graduate and Postdoctoral Studies.

Why and how amended: As requested by the donor through the Annual Student Award Confirmation Form, the number of scholarships available has been reduced.

#1190 Italian Government Book Prize – A book prize is offered annually by the Consulate General of Italy in Vancouver to an undergraduate student in Italian of a level above beginners (200 or higher), on the recommendation of the Head of the Department of French, Hispanic & Italian studies.

Why and how amended: As requested by the donor through the Annual Student Award Confirmation Form, the name of the organization that is offering the award has been edited.

#1286 Normand M. Bouchard Memorial Bursary – Bursaries totalling \$4,000 have been made available through an endowment established by Mr. William and Mrs. Miyo Thornton-Trump in memory of their son, Norman Bouchard (1969-1995). Norman Bouchard was a long-time UBC Film Society Executive who graduated from UBC in 1995. The theatre at the UBC Student Union Building is named after Norman Bouchard. The bursaries are for students in any year or faculty. The adjudication is made by Enrolment Services.

Why and how amended: As per the donor's request, the award has changed from annually funded to endowed, and the number of bursaries available has increased.

#1436 Crowe MacKay LLP Scholarship in Accounting - Two \$3,500 scholarships are offered annually by Crowe MacKay LLP, and the Chartered Accountants Education Foundation, to an undergraduate student enrolled in the Accounting option of the Bachelor of Commerce program at the Sauder School of Business. This award was established to mark the 40th anniversary of Crowe MacKay LLP (formerly MacKay LLP) and honour the legacy created by the founding partner, Iain MacKay and the other leading partners of Crowe MacKay LLP. This award is made on the recommendation of the Sauder School of Business to a student in good academic standing who has expressed an intention to enter the Chartered Professional Accountant program immediately following graduation.

Why and how amended: As requested by the donor through the Annual Student Award Confirmation Form, the award description has been modified to include the updated name of the professional program.

#2005 Jean Barman Prize in Aboriginal Education - Prizes totalling \$1,000 are offered annually to students of Aboriginal ancestry pursuing graduate or teacher education degrees based on a project related to Aboriginal people. The award is named in honour of Dr. Jean Barman, an outstanding professor who taught and works in this area. The award is made on the recommendation of the Faculty of Education in consultation with the Associate Dean of Indigenous Education and the Faculty of Graduate and Postdoctoral Studies.

Why and how amended: As requested by the Faculty, the line regarding the recommendation process has been edited.

#2009 Lotus Light Charity Society Mu-Shu Lee Memorial Award in Education – Two awards of \$500 each are offered annually by the Family of Mu-Shu Lee to outstanding undergraduate or graduate students in Special Education in the Faculty of Education who demonstrate strong academic achievement and involvement in the community. Candidates must be a Canadian citizen, a landed immigrant (permanent resident) or have protected person status. Recommendations are made by the Faculty of Education and, in the case of graduate students, in consultation with the Faculty of Graduate and Postdoctoral Studies.

Why and how amended: As requested by the donor, the number of awards available has

increased, the award eligibility has changed to include undergraduate students, and the award criteria have broadened with the “involvement in the community” component.

#2933 Ronald Jobe Children's Literature Scholarship - Scholarships totalling \$2,200, with no one student receiving more than \$1,000, have been made available through an endowment established in honour of Dr. Ronald Jobe, a Professor in the Department of Language and Literacy Education since 1978. He has created a stimulating atmosphere for scholarship in children's literature at the university through his dynamic teaching style and involved supervision of graduate theses, as well as his advocacy for the subject both nationally and internationally. The award is made to students in the Master of Arts Program in Children's Literature on the recommendation of the School of Library, Archival and Information Studies, in consultation with the Faculty of Graduate and Postdoctoral Studies.

Why and how amended: As requested by the donor, the line that clarifies that no one student shall receive more than \$1,000 has been added.

#3734 Pharmasave Drugs (Pacific) Ltd Scholarship in Pharmacy – A \$1,000 scholarship, gift of Pharmasave Drugs Pacific Ltd., is offered annually to a student proceeding to the fourth year in the Faculty who has obtained the highest standing in the required Therapeutics courses of the second and third year.

Why and how amended: As requested by the donor through the Annual Student Award Confirmation Form, the required courses considered for the evaluation of the students' academic standing have changed.

#3761 Pharmasave Drugs (Pacific) Ltd Leadership Award – A \$1,500 award is offered annually by Pharmasave Drugs Pacific Ltd. for a student in the third or fourth year of a Bachelor of Pharmaceutical Sciences program who demonstrates leadership skills and has an interest in community practice. The award is made on the recommendation of the Faculty of Pharmaceutical Sciences.

Why and how amended: As requested by the donor through the Annual Student Award Confirmation Form, the word “Leadership” has been added to the award title.

#4529 Lotus Light Charity Society Mu-Shu Lee Memorial Award in Social Work – Two awards of \$500 each are offered annually by the Family of Mu-Shu Lee to undergraduate or graduate students in social work who demonstrate strong academic achievement and involvement in the community. Preference is given to students with Aboriginal heritage who are Canadian citizens or permanent residents or have protected person status. Recommendation is made by the School of Social Work and, in the case of graduate students, in consultation with the Faculty of Graduate and Postdoctoral Studies.

Why and how amended: As requested by the donor, the number of awards available has increased and the award criteria have broadened with the “involvement in the community” component.

#4663 Aboriginal Transfer Scholarship – Entrance scholarships valued at \$2,500 each are available to eligible Canadian Aboriginal students transferring from Langara College into the Bachelor of Arts, Bachelor of Science or Bachelor of Commerce programs at UBC. This scholarship supports Aboriginal students who meet the University's admission requirements under the UBC-Langara Aboriginal Transfer Program. Eligible students must have attained an average at the point of admission to UBC of B+ or higher (3.33 or greater on the Langara grade scale) and register in a minimum of 24 credits during the upcoming Winter Session at UBC.

Why and how amended: As requested by Enrolment Services, the award title was revised to better distinguish this award from #4664 (for continuing students); the list of eligible programs has been updated to include new programs; some text has been edited to improve clarity of description.

#4664 Aboriginal Transfer Award - Awards ranging in value from \$1,500 to \$2,500 are available to continuing eligible Canadian Aboriginal students who were admitted to the Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce programs at UBC under the UBC-Langara Aboriginal Transfer Program and who have demonstrated academic achievement and community engagement. The award is adjudicated by Enrolment Services in consultation with the Faculties and the First Nations House of Learning.

Why and how amended: As requested by Enrolment Services, the list of eligible programs has been updated to include new programs; some text has been edited to improve clarity of description; the adjudicating body has been changed to include Enrolment Services.

#4678 Bachelor of International Economics (BIE) International Entrance Scholarship – Scholarships valued up to \$15,000 each are available to outstanding International students entering the Bachelor of International Economics (BIE) program at the Vancouver School of Economics. The awards are based primarily on the students' scholarly achievement, with preference given to students who demonstrate strong leadership abilities and community involvement. Awards are made on the recommendation of the Vancouver School of Economics.

Why and how amended: As requested by the International Student Initiative, the award value has changed and the student eligibility has broadened.

#5368 MineSight Award in Mining Engineering - Awards totalling \$5,000 are offered by MineSight to undergraduate students enrolled in Mining Engineering. Preference will be given to students who have expressed interest in computer technology related to the mining industry. To be considered, candidates must show high academic achievement. The award is made on the recommendation of the Norman B. Keevil Institute of Mining Engineering.

Why and how amended: As requested by the donor, the donor's corporate name has been updated in both the award title and calendar description.

#5900 Dale Robert Pedersen Prize in Criminal Law - A \$1,000 prize is offered by Dale R. Pedersen (LLB '94) to a first year Law student who achieves the highest standing in Criminal Law. The award is made on the recommendation of the Peter A. Allard School of Law.

Why and how amended: Following the Faculty's note that Criminal Law is actually a first year course, award eligibility has changed to first year Law student.

#6472 Lawrence R. Munroe Scholarship in Community & Regional Planning – A \$3,150 scholarship has been made available through an endowment established by Diana L. Belhouse (BA 1947, LLB 1973), to honour the memory of her husband, Lawrence R. Munroe, P.Eng. (B.A.Sc, Civil Engineering 1946). The award is available to outstanding students in the School of Community and Regional Planning who are Canadian citizens and who majored in or received an undergraduate degree in geography or civil engineering from the University of British Columbia or the University of Victoria. Lawrence began his successful career in 1946 with the Vancouver Town Planning Commission until the creation of City of Vancouver Planning Department where he held the position of Associate Director of Planning, until his passing at 47 years of age in 1970. In honour of Lawrence's influence on the beautification of the City of Vancouver and lifetime work, preference will be given to students who have demonstrated an interest in urban design which focuses on the creation and retention of green space and enhances the beauty of cities or urban areas. The award is made on the recommendation of the School of Community and Regional Planning, in consultation with the Faculty of Graduate and Postdoctoral Studies.

Why and how amended: As per the donor's request, the number of awards available has changed, SFU has been removed from the eligible undergraduate degree institutions, and financial need consideration has also been removed.

#8197 Fine Arts Dental Laboratories Ltd and Leixir Lab Group Bursary – Two bursaries in the amount of \$1,500 each are offered by Fine Arts Dental Laboratories and Leixir Lab Group to two students in any of the first three years of Dentistry who require financial assistance to pursue their studies.

Why and how amended: As requested by the donor through the Annual Student Award Confirmation Form, and as a result of the recent acquisition of the Fine Arts Dental Laboratories Ltd by the Leixir Lab Group of Canada, the name of the latter company has been added to the title of the award and in the award description.

#8342 Gurminder Singh Tatra Bursary – A \$1,000 bursary is offered annually by Dr. Gurminder S. Tatra to an undergraduate student in the first year of the D.M.D. program. Dr. Tatra was a Dental Officer in the Canadian Forces who completed his dental school education at UBC under the "Dental Officer Training Program". The bursary was created to help support dental students who are in financial need. The adjudication is made by Enrolment Services.

Why and how amended: As requested by the donor through the Annual Student Award

Confirmation Form, the number of bursaries available has reduced from four to one and the eligibility has been limited to students in the first year of the D.M.D. program.

#8539 UBC Law Student Emergency Award - The UBC Law Student Emergency Award has been established to assist law students in any year of study who are faced with an unexpected financial challenge of a serious nature which impacts their well-being and/or their ability to continue in the program. The student must demonstrate that all other possible sources of support have been explored before an application is considered. All requests are determined on a case-by-case basis. Awards are adjudicated by Enrolment Services.

Why and how amended: As requested by the Faculty, student eligibility has been broadened to allow graduate students to be considered for the emergency funding as well.

Previously-Approved Awards with Changes in Method of Payment:

Why and how amended: Effective for the 2015 Summer Session, the method of administering payment for the following graduate awards will change from Payroll to the SISC. The award terms and funding source are unchanged. Large awards (>\$15,000 per year) used to be administered through Payroll because the SISC was not capable of direct deposit to the recipient's bank account. Effective January 2015, SISC became capable of direct deposit. Changing the method of administering payment will better align with how other funding administered by G+PS is distributed.

Alzheimer Society of Canada Graduate Award

The Alzheimer Society of Canada offers funding to support graduate students undertaking research in the area of Alzheimer's disease and other dementias. Recipients are selected by the funding agency.

Child and Family Research Institute Graduate Award

The Child and Family Research Institute offers funding to support graduate students undertaking research into children's and women's health concerns. Recipients are selected by the funding agency.

Canadian Cystic Fibrosis Foundation Graduate Award

The Canadian Cystic Fibrosis Foundation offers funding to support graduate students undertaking research into cystic fibrosis. Recipients are selected by the funding agency.

Canadian Diabetes Association Graduate Award

The Canadian Diabetes Association offers funding to support graduate students undertaking research into diabetes. Recipients are selected by the funding agency.

Canadian Institutes of Health Research (CIHR) Canada Graduate Scholarship Master's Award

The Canadian Institutes of Health Research (CIHR) offers funding to support Master's students undertaking health research. The awards are made on the recommendation of the

Faculty of Graduate and Postdoctoral Studies.

Canadian Institutes of Health Research (CIHR) Doctoral Award

The Canadian Institutes of Health Research (CIHR) offers funding to support doctoral students undertaking health research. Recipients are selected by the funding agency.

Canadian Institutes of Health Research (CIHR) Vanier Scholarship

The Canadian Institutes of Health Research (CIHR) offers funding to support doctoral students undertaking research into health research. Recipients are selected by the funding agency.

Canadian Institutes of Health Research (CIHR) Strategic Training Program Award

Various Canadian Institutes of Health Research (CIHR)-funded Strategic Training Programs offer funding to support graduate students undertaking health research. Recipients are selected by the individual training programs.

Heart and Stroke Foundation of Canada Graduate Award

The Heart and Stroke Foundation of Canada offers funding to support graduate students undertaking heart and stroke research. Recipients are selected by the funding agency.

Kidney Foundation of Canada Graduate Award

The Kidney Foundation of Canada offers funding to support graduate students undertaking research into kidney disease. Recipients are selected by the funding agency.

Multiple Sclerosis Society of Canada Graduate Award

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The Multiple Sclerosis Society of Canada offers funding to support graduate students undertaking research into multiple sclerosis. Recipients are selected by the funding agency.

NSERC Canada Graduate Scholarship Master's Award

The Natural Sciences and Engineering Research Council (NSERC) offers funding to support Master's students undertaking research in natural sciences and engineering. The awards are made on the recommendation of the Faculty of Graduate and Postdoctoral Studies.

NSERC Doctoral Award

The Natural Sciences and Engineering Research Council (NSERC) offers funding to support doctoral students undertaking research in natural sciences and engineering. Recipients are selected by the funding agency.

NSERC Vanier Scholarship

The Natural Sciences and Engineering Research Council (NSERC) offers funding to support doctoral students undertaking research in natural sciences and engineering. Recipients are selected by the funding agency.

SSHRC Canada Graduate Scholarship Master's Award

The Social Sciences and Humanities Research Council (SSHRC) offers funding to support Master's students undertaking research in social sciences and humanities. The awards are made on the recommendation of the Faculty of Graduate and Postdoctoral Studies.

SSHRC Doctoral Award

The Social Sciences and Humanities Research Council (SSHRC) offers funding to support doctoral students undertaking research in social sciences and humanities. Recipients are selected by the funding agency.

SSHRC Vanier Scholarship

The Social Sciences and Humanities Research Council (SSHRC) offers funding to support doctoral students undertaking research in social sciences and humanities. Recipients are selected by the funding agency.

THE UNIVERSITY OF BRITISH COLUMBIA



Vancouver Senate Tributes Committee
c/o
Enrolment Services | Senate & Curriculum Services
Brock Hall 2016 – 1874 East Mall
Vancouver BC V6T 1Z1

2 April 2015

To: Vancouver Senate
From: Tributes Committee
Subject: Memorial Minutes

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

Dr. Sydney M. Friedman
Reverend Professor William Nicholls
Dr. Anthony Dalton Scott

Motion: *That Senate approve the Memorial Minutes for Dr. Sydney M. Friedman, Reverend Professor William Nicholls, and Dr. Anthony Dalton Scott, that they be entered into the Minutes of Senate and copies be sent to the family of the deceased.*

Respectfully submitted,

Dr. Sally Thorne, Chair
Senate Tributes Committee



Dr. Sydney M. Friedman

Dr. Sydney Murray Friedman was a pioneer for medical education in British Columbia. He was born in Montreal in 1916 and, after a period in the Canadian Air Force, earned his MD and PhD from McGill University. In 1949, he was recruited to UBC as the first faculty member in the newly-created Faculty of Medicine. He and his wife, Dr. Constance Livingstone-Friedman, set about developing a new department and medical school. They travelled the world studying medical buildings to help envision what was needed for UBC. The building they helped design was constructed in 1961 and later named the Friedman Building in their honour.

Introducing the teaching of anatomy in a new venue was challenging: the first class of 60 students was mainly taught in large huts that had been previously built for the School of Architecture, and a room in a dairy barn served as the storage site for cadavers. But Dr. Friedman's philosophy as a teacher of anatomy was different from that of most basic scientists. In contrast to the practice of anatomy teaching in most other medical schools, Dr. Friedman believed in relating the teaching of gross anatomy to clinical practice, and he integrated it with histology, radiology, and neuroanatomy. Dr. Friedman taught 3-D living anatomy and successfully bridged the gap with other basic sciences, such as physiology and biochemistry.

Dr. Friedman played a leading role in the establishment of the UBC Hospital and the growth of the University throughout the 1950s and 1960s. His numerous contributions to the University included 25 years of service as a Senator. He was Professor and Head in the Department of Anatomy at UBC from 1950-1981, during which time he established himself as Canada's foremost expert in anatomy. In addition to his medical training, Dr. Friedman was also an avid artist and accomplished medical illustrator. His visual approach to anatomy was demonstrated in his teaching and, with the help of his wife, he also wrote and illustrated a popular textbook entitled *Visual Anatomy*.

Dr. Friedman was also the first in the Faculty of Medicine to obtain research funding. He and his wife published over 200 articles, including many hallmark studies on the role of sodium in hypertension. He was a founding member of the BC Heart Foundation and received many awards and honours over the course of his career, including election as a Fellow of the Royal Society of Canada in 1962, the Outstanding Service Award from the Heart Foundations of Canada in 1981, and the Distinguished Achievement Award of the Canadian Hypertension Society in 1987.

The Friedmans' contributions to UBC have been selfless and generous. To encourage students to pursue a well-rounded education, Dr. Friedman and his wife created the UBC Friedman Travel Award, the Constance Livingstone-Friedman and Sydney Friedman Foundation, and the UBC Friedman Scholars Program. After the passing of his wife of 70 years in 2011, Dr. Friedman made substantial donations to the Museum of Anthropology and also donated his award-winning home near campus.



Dr. Friedman's determination and spirit helped create the world-class Faculty of Medicine at UBC today, leaving a lasting legacy. He will be remembered for his significant contributions to the Department of Anatomy, the Faculty of Medicine, and the University.

To his family and friends, the Senate and the University of British Columbia offers its condolences and thanks.

The Reverend Professor William Nicholls

The Reverend Professor William Nicholls was born in England in 1921 and was educated at St. John's College, Cambridge. After serving in the Anglican ministry in England and Scotland, he taught at the University of Manitoba before coming to UBC in 1961.

At UBC, he formed one of the first non-sectarian, comparative programs of religious studies in Canada, and the first in the province. Professor Nicholls served Senate as a representative from the Faculty of Arts from 1963 to 1966. Religious Studies attained full department status in 1964, with Professor Nicholls as its first Head. He served in this position until his retirement in 1983.

Professor Nicholls was one of the founders of the Canadian Society for the Study of Religion and the first editor of its journal, *Studies in Religion*. He was a visionary for academic religious studies in Canada, calling for broad comparative study of all religions.

To his family and friends, the Senate and the University of British Columbia offers its condolences and thanks.

Dr. Anthony Dalton Scott

Regarded as among the founders of modern resource economics, Dr. Anthony (Tony) Dalton Scott was a leader in the field. Over his 36 year career, he published more than 100 papers and multiple books, including several editions of Samuelson and Scott's *Economics*, which provided an introduction to economics for thousands of Canadian university students.

After completing undergraduate degrees in Commerce and Arts at UBC, Dr. Scott continued his graduate studies at Harvard and the London School of Economics. In 1953, he joined the Department of Economics at UBC, serving as Chair from 1967 to 1971. He was a key figure during the department's expansion throughout that period, and its establishment of a prominent national and international presence in both research and graduate education. Dr Scott served on the Senate from 1963 to 1975. After his retirement in 1989, UBC conferred upon him an Honorary Doctor of Letters in 1992 in recognition of his pioneering contributions to the field of resource economics.

Dr. Scott was the recipient of several honours and awards, including election as a Fellow of the Royal Society of Canada in 1969, an Honourary Doctorate from the University of Guelph in 1980, and appointment as an Officer of the Order of Canada in 1982. In 1987, he received the



Innis-Gerin Medal, awarded by the Royal Society of Canada for a distinguished and sustained contribution to the literature of the social sciences.

Two fellowships have been endowed to honour Dr. Scott's important contributions to UBC and the Vancouver School of Economics.

To his family and friends, the Senate and the University of British Columbia offers its condolences and thanks.



15 April 2015

To: Vancouver Senate

From: Senate Curriculum & Admissions Committees

Re: Master of Architecture/Master of Landscape Architecture (approval)

The Senate Curriculum and Admissions Committees have reviewed the material forwarded to them by the Faculty of Graduate and Postdoctoral Studies (Faculty of Applied Science) and enclose those proposals they deem ready for approval.

The following is recommended to Senate:

Motion: *“That the new Master of Architecture (M.Arch.)/Master of Landscape Architecture (M.L.A.) dual degrees program option be approved.”*

Respectfully submitted,

Mrs. Carol Jaeger, Vice-Chair, Senate Curriculum Committee
Dr Robert Sparks, Chair, Senate Admissions Committee



FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

New dual degrees program option

Applied Science

G+PS>Degree Programs>Architecture>Master of Architecture/Master of Landscape Architecture; G+PS>Degree Programs>Landscape Architecture>Master of Architecture/Master of Landscape Architecture; G+PS>Dual Program Options>Master of Architecture/Master of Landscape Architecture; School of Architecture and Landscape Architecture>Master of Architecture/Master of Landscape Architecture

EXECUTIVE SUMMARY

Dual degree option in Master of Architecture and Master of Landscape Architecture Faculty of Applied Science, University of British Columbia

NOTE: This Executive Summary is provided for information only. This is a Dual Degree proposal within a single UBC department. Both degree programs exist.

1. Overview

The School of Architecture and Landscape Architecture was established in 2005, merging the Landscape Architecture Program in the former Faculty of Agricultural Sciences with the School of Architecture in the Faculty of Applied Science. The School was formed in recognition of the synergies between the two disciplines and professions, and the increasing importance of creating fluid relationships between them.

Through its teaching, research and community engagement, the School of Architecture and Landscape Architecture is committed to graduating leaders equipped to contribute to the creation of a built environment supportive of civil and sustainable patterns of living. Architecture and Landscape Architecture are “sister” professions dedicated to the design of the built environment. While architecture’s focus has traditionally been buildings and landscape architecture’s focus has traditionally been outdoor spaces, these lines are blurring with the systemic thinking necessary to address global problems. The professions themselves are changing. Increasingly larger companies are forming to encompass interdisciplinary expertise. There is demand from our students as well as from the professional community to offer an opportunity to achieve both degrees concurrently. Nonetheless, the two professions are independent in terms of licensure legislation and the granting of licensure, thus one degree in no way serves both disciplines.

This proposal for a dual degree option in MArch and MLA will be the first of its kind in Canada. It will align the UBC School of Architecture and Landscape Architecture with other renowned Universities such as Harvard GSD, University of Pennsylvania, Cornell University and the University of Virginia all of whom offer a similar four-year dual degree option. This dual degree option will allow students to integrate both the distinct disciplinary knowledge of architecture and landscape architecture with interdisciplinary knowledge, or that knowledge which is common to both. Because these professions function under different licensure legislation and are licensed by different professional bodies, individuals require both accredited degrees to practice both architecture and landscape architecture.

The stand-alone Master of Architecture degree is 119 credits and the Master of Landscape Architecture degree is 110 credits. The proposed Dual Degree is 149 credits. This credit efficiency is possible because the two existing programs have significant overlapping credits. Over several years, the School of Architecture and Landscape Architecture has been integrating interdisciplinarity into these two degree programs by developing shared courses which

students from both programs are required to take and by cross-listing other courses. As well, students in these two programs already may already take their elective courses and one studio course in their sister discipline. The proposed dual degree program formalizes and structures what is already happening in the school (see the attached program of study). As with all dual degree programs we have researched, students will complete one interdisciplinary graduate project, which satisfies the requirements of both programs. Most importantly, it proposes an efficient plan of study that enables students to complete all existing core and elective requirements in a four-year time frame.

2. Proposed Credentials

Dual Degrees: Master of Architecture (M.Arch)

Master of Landscape Architecture (M.L.A.)

3. Location

UBC Vancouver Campus.

4. Faculty offering the proposed Dual Degree: School of Architecture and Landscape Architecture, Faculty of Applied Science and Faculty of Graduate and Postgraduate Studies.

5. Program Start Date/ Program Completion Time

The program will be offered in the 2016/2017 academic year, beginning in August 2016.

Anticipated time for completion of the program is 4 years.

6. ii Anticipated contribution to the mandate and strategic plan of the institution

This dual degree program is leading edge in professional education. Modes of practice in North America and across the globe are increasingly interdisciplinary, to solve the complex and multi-dimensional problems undertaken by professionals. Leaders in wholistic, synthetic thinking are needed to lead interdisciplinary teams. This program will attract the brightest students who understand the needs of society for integrative solutions. The School of Architecture and Landscape Architecture is committed to graduating leaders equipped to contribute to the creation of a built environment supportive of civil and sustainable patterns of living.

6. iii Learning Objectives

At the end of this program, students will be prepared and qualified to...

- practice architecture and landscape architecture, particularly to proceed to internship and licensure in both professions
- create a built environment supportive of civil and sustainable patterns of living
- integrate, think and practice design across disciplinary lines
- be leaders in interdisciplinary modes of practice

6. iv. Linkages between the learning outcomes and the curriculum design:

Our goal is to educate students who will become leaders in interdisciplinary modes of practice. This dual degree program will allow students to integrate both the distinct

disciplinary knowledge of architecture and landscape architecture with interdisciplinary knowledge, or that knowledge which is common to both. Students will complete all core and elective requirements for both degree programs, which includes common courses. The terminal graduate project will be interdisciplinary. It is a year-long research and design project which is undertaken concurrently with other courses and in a studio setting. Co-supervisors, one in Architecture and one in Landscape Architecture, will supervise the graduate project.

6.vii. An overview of the level of support and recognition from other post-secondary institutions. N/A this is not a new program.

7. Delivery Methods

Courses and studios will primarily occur on the UBC Campus in the existing School of Architecture and Landscape Architecture facilities. The program will offer opportunities for study abroad and field courses during summer terms.

8. Program Strengths

The Dual Degree Program will afford students the opportunity to study in two inter-related but distinct professional programs:

The Master of Architecture Program offers a professional curriculum accredited by the Canadian Architectural Certification Board (CACB). As with other accredited, professional degrees, the course of study is highly demanding, with a large proportion of the curriculum being assigned to core, required coursework. Within the Program, opportunities to develop individual identity and specialized skills are made possible through the selection of topic design studios, thoughtful engagement with electives, and execution of the individual Graduation Project.

The Master of Landscape Architecture similarly offers a professional curriculum accredited by the Landscape Architecture Accreditation Council. This course of study is highly demanding with a significant portion of the curriculum assigned to core knowledge areas. As with Architecture, opportunities to develop individual identity and specialized knowledge are possible through selection of studio instructors and topics, selection of elective courses both in the discipline and outside, and through the year-long graduate project.

Students graduating from the dual degree program will be uniquely positioned to become leaders in interdisciplinary modes of thinking and practice, which are ingredients of innovation and systems thinking.

9. Admissions

Students wishing to pursue the dual MArch/MLA degree program must be admitted separately to the Master of Architecture Program and to the Master of Landscape Architecture Program. Those seeking admission to the dual degree program must provide notice to this effect in their applications to the MArch and MLA Programs by indicating in writing their intent and rationale

for enrolling in the dual degree program. Students holding a recognized pre-professional degree in one of the two disciplines (a Bachelor of Environmental Design or Bachelor of Arts- major in Architecture, a Bachelor of Landscape Architecture, for example) will typically be given advanced standing at the discretion of each program's Admissions Committee.

Advising in both Architecture and Landscape Architecture is handled similarly. Each program has a students services coordinator who handles straightforward inquiries. Each student is also encouraged to seek long term academic advice from his or her academic advisor or the program Chair. One faculty member will serve as Dual Degree student advisor.

10. Related programs at UBC or other BC post-secondary institutions

There are no similar graduate-level programs in British Columbia or Canada.

11. Resources

Since the curriculum offered in the dual degree program is already offered in the MArch and MLA programs, there will be no additional resources required for budget, space or library.

12. Institutional contacts:

Cynthia Girling,
Professor and Chair, Landscape Architecture
Tel: (604)822-0438
Email: cgirling@sala.ubc.ca
Web: www.sala.ubc.ca

John Bass,
Associate Professor and Chair, Architecture
Tel: (604) 822-2420
john.bass@sala.ubc.ca
Web: www.sala.ubc.ca

School of Architecture and Landscape Architecture

Course Requirements

Master of Architecture
 119 CREDITS

Proposed Dual Degree Option
 149 CREDITS

Master of Landscape Architecture
 110 CREDITS

ARCH 502 (2)	ARCH 502 / LARC 511 (2)	LARC 511 (2)
INTRODUCTORY WORKSHOP		
ARCH 500 Intro Studio (9)	ARCH 500 or LARC 501 Intro Studio (9)	LARC 501 Intro Studio (9)
ARCH 501 Vertical Studio (9)	ARCH 501 Vertical Studio (9)	LARC 502 Design Methods (9)
ARCH 520 Vertical Studio (9)	ARCH 521 Comprehensive Studio (9)	LARC 503 Design Development (9)
ARCH 521 Comprehensive Studio (9)	ARCH 520 or 540 Vertical Studio (9)	LARC 504 Vertical Studio (9)
ARCH 540 Vertical Studio (9)	LARC 502 Design Methods (9)	LARC 504 Vertical Studio (9)
	LARC 503 Design Development (9)	
	LARC 504 Vertical Studio (9)	
HISTORY AND THEORY		
ARCH 504 History 1A (3)	ARCH 504 History 1A (3)	LARC 520 Theory (3)
ARCH 505 History 1B (3)	ARCH 505 History 1B (3)	LARC 522 History (3)
ARCH 523 Contemporary Theory (3)	ARCH 523 Contemporary Theory (3)	LARC 525 Research (3)
ARCH 568 Research (3)	ARCH 568 / LARC 525 Research (3)	
	LARC 520 Theory (3)	
	LARC 522 History (3)	
TECHNOLOGY AND MATERIAL SYSTEMS		
ARCH 511 Technology 1 (3)	ARCH 511 Technology 1 (3)	LARC 316 Plants (3)
ARCH 512 Structures 1 (3)	ARCH 512 Structures 1 (3)	LARC 531 Technology 1 (3)
ARCH 513 Systems and Controls 1 (3)	ARCH 513 Systems and Controls 1 (3)	LARC 532 Technology 2 (3)
ARCH 531 Technology 2 (3)	ARCH 531 Technology 2 (3)	LARC 540 Site Analysis (3)
ARCH 532 Structures 2 (3)	ARCH 532 Structures 2 (3)	LARC 541 Planning (3)
ARCH 533 Systems and Controls 2 (3)	ARCH 533 Systems and Controls 2 (3)	
	LARC 316 Plants (3)	
	LARC 531 Technology 1 (3)	
	LARC 532 Technology 2 (3)	
	LARC 540 Site Analysis (3)	
	LARC 541 Planning (3)	
DESIGN MEDIA AND REPRESENTATION		
ARCH 515 Design Media 1 (3)	ARCH 515 Design Media 1 (3)	ARCH 515 Design Media 1 (3)
ARCH 517 Design Media 2 (3)	ARCH 517 Design Media 2 (3)	ARCH 517 Design Media 2 (3)
PROFESSIONAL PRACTICE		
ARCH 541 (3)	ARCH 541 / LARC 551 (3)	LARC 551 (3)
GRADUATION PROJECT		
ARCH 548 (3)	ARCH 548 or LARC 590 (3)	LARC 590 (3)
ARCH 549 (9)	ARCH 549 or LARC 598 (9)	LARC 598 (9)
ELECTIVES		
Electives (7 × 3)	Electives (4 × 3)	Electives (6 × 3)

Notes

Shared or cross-listed course

Architecture or Landscape Architecture course

Course titles in the table are for descriptive purposes only and do not match the titles of the courses as they appear in the Academic Calendar



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: Applied Science Department: School of Architecture and Landscape Architecture Faculty Approval Date: Nov. 11, 2014. Effective Session (W or S): W Effective Academic Year: 2016</p>	<p>Date: September 30, 2014 Contact Person: Luke Parkinson Phone: 604 822.0205 Email: luke.parkinson@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>Architecture Degrees Offered: M.Arch., M.Arch./M.L.A., M.A.S.A. ... Master of Architecture ... Program Requirements ... For detailed information, see <u>Architecture</u>, or the <u>School of Architecture and Landscape Architecture</u>.</p> <p>Dual Degree: Master of Architecture/ Master of Landscape Architecture. Note: This program option is accepting students in Fall 2016.</p> <p>The Dual Degree program option permits qualified students the opportunity to earn a Master of Architecture and a Master of Landscape Architecture concurrently.</p> <p>Admission</p> <p>Students wishing to pursue the dual degree option must be admitted separately to the Master of Architecture and the Master of Landscape Architecture programs. Those seeking admission to the dual degree program must provide notice of this intention in</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,204,828,1117</p> <p>Present Calendar Entry:</p> <p>Architecture Degrees Offered: M.Arch., M.A.S.A. ... Master of Architecture ... Program Requirements ... For detailed information, see <u>Architecture</u>, or the <u>School of Architecture and Landscape Architecture</u>.</p>



writing in their applications to both programs. Students holding a pre-professional degree in one of the two disciplines (a Bachelor of Environmental Design, Bachelor of Arts with a major in Architecture, a Bachelor of Landscape Architecture, for example) will typically be given advanced standing at the discretion of each program's Admissions Committee.

See the School of Architecture and Landscape Architecture web site for detailed Admissions requirements and deadlines. www.sala.ubc.ca/Admissions

Degree requirements

The dual degree option for the Master of Architecture (M.Arch.)/Master of Landscape Architecture (M.L.A.) degrees is designed for candidates seeking admission to both professions. Full-time students normally complete this program in four years. The dual master's degrees are awarded upon the completion of 149 credits of work, including an interdisciplinary major graduating project. The core curriculum includes 45 core required credits in MArch; 39 core required credits in MLA and 53 interdisciplinary (joint) core required credits. All students are additionally required to take 12 elective credits.

For a detailed course outline on the dual degree option please refer to the SALA website: <http://www.sala.ubc.ca/programs/dual-degree/curriculum>

Master of Advanced Studies in Architecture

...

Master of Advanced Studies in Architecture

...

Type of Action:

Create new dual degree program option,



	<p>M.Arch. and M.L.A. in Applied Science.</p> <p>Rationale for Proposed Change: The dual degree program option will address the growing local and international need for collaboration and synthetic work between architects and landscape architects. The proposed dual degree program will be the first of its kind in Canada. This program formalizes and structures ongoing efforts in the School to introduce interdisciplinary education in the existing degree programs. The dual degree option will allow students to integrate both the distinct disciplinary knowledge of the two disciplines with interdisciplinary knowledge and modes of working.</p> <p>The dual degree program option also allows for a reduction in total credits for students compared to the traditional double degree route primarily through completing a joint interdisciplinary graduate project.</p>
<p>Proposed Calendar Entry:</p> <p>Landscape Architecture Degrees Offered: M.L.A., M.Arch./M.L.A., M.A.S.L.A.</p> <p>...</p> <p>Master of Landscape Architecture</p> <p>...</p> <p>Program Requirements</p> <p>...</p> <p>A grade of 68% is required as a passing grade for all design studio courses (LARC 501, 502, 503, 504, or any substituted classes).</p> <p>Dual Degree: Master of Architecture/ Master of Landscape Architecture. Note: This program option is accepting students in Fall 2016.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,204,828,1184</p> <p>Present Calendar Entry:</p> <p>Landscape Architecture Degrees Offered: M.L.A., M.A.S.L.A.</p> <p>...</p> <p>Master of Landscape Architecture</p> <p>...</p> <p>Program Requirements</p> <p>...</p> <p>A grade of 68% is required as a passing grade for all design studio courses (LARC 501, 502, 503, 504, or any substituted classes).</p>



The Dual Degree program option permits qualified students the opportunity to earn a Master of Architecture and a Master of Landscape Architecture concurrently.

For information about the dual degree option for M.L.A and M.Arch please refer to the Master of

Architecture: <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,204,828,1117>

Master of Advanced Studies in Landscape Architecture

...

Master of Advanced Studies in Landscape Architecture

...

Type of Action:

Create link to new dual degree program option, M.Arch. and M.L.A. in Applied Science.

Rationale for Proposed Change:

The dual degree program option will address the growing local and international need for collaboration and synthetic work between architects and landscape architects. The proposed dual degree program will be the first of its kind in Canada. This program formalizes and structures ongoing efforts in the School to introduce interdisciplinary education in the existing degree programs. The dual degree option will allow students to integrate both the distinct disciplinary knowledge of the two disciplines with interdisciplinary knowledge and modes of working.

The dual degree program option also allows for a reduction in total credits for students compared to the traditional double degree route primarily through completing a joint interdisciplinary graduate project.

URL:

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,204,903,0>



Proposed Calendar Entry:

Dual Program Options

Architecture

See [Master of Architecture/Master of Landscape Architecture \(M.Arch./MLA\)](#).

Archival Studies

See Master of Archival Studies with Master of Library and Information Studies (M.A.S./M.L.I.S.).

...

Landscape Architecture

See [Master of Architecture/Master of Landscape Architecture \(M.Arch./MLA\)](#).

Law

...

Present Calendar Entry:

Dual Program Options

Archival Studies

See Master of Archival Studies with Master of Library and Information Studies (M.A.S./M.L.I.S.).

...

Law

...

Type of Action:

Add new dual degree program option, (M.Arch. and M.L.A.) to “Dual Program Option” area of the Academic Calendar.

Rationale for Proposed Change:

The dual degree program option will address the growing local and international need for collaboration and synthetic work between architects and landscape architects. The proposed dual degree program will be the first of its kind in Canada. This program formalizes and structures ongoing efforts in the School to introduce interdisciplinary education in the existing degree programs. The dual degree option will allow students to integrate both the distinct disciplinary knowledge of the two disciplines with interdisciplinary knowledge and modes of working.

The dual degree program option also allows for a reduction in total credits for students compared to the traditional double



	degree route primarily through completing a joint interdisciplinary graduate project.
<p>Proposed Calendar Entry:</p> <p>The School of Architecture and Landscape Architecture</p> <p>Contents</p> <p>...</p> <p>Master of Advanced Studies in Landscape Architecture</p> <p><u>Master of Architecture/Master of Landscape Architecture Dual Degree Program Option</u></p> <p>Master of Urban Design</p> <p>...</p>	<p>URL:</p> <p>http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,196,0,0</p> <p>Present Calendar Entry:</p> <p>The School of Architecture and Landscape Architecture</p> <p>Contents</p> <p>...</p> <p>Master of Advanced Studies in Landscape Architecture</p> <p>Master of Urban Design</p> <p>...</p> <p>Type of Action:</p> <p>Add new dual degree program option, (M.Arch. and M.L.A.) to the SALA area of the Academic Calendar.</p> <p>Rationale for Proposed Change:</p> <p>The dual degree program option will address the growing local and international need for collaboration and synthetic work between architects and landscape architects. The proposed dual degree program will be the first of its kind in Canada. This program formalizes and structures ongoing efforts in the School to introduce interdisciplinary education in the existing degree programs. The dual degree option will allow students to integrate both the distinct disciplinary knowledge of the two disciplines with interdisciplinary knowledge and modes of working.</p> <p>The dual degree program option also allows for a reduction in total credits for students compared to the traditional double degree route primarily through completing a joint interdisciplinary graduate project.</p>



To: Vancouver and Okanagan Senates (15 April 2015; 22 April 2015)

From: Vancouver Senate Curriculum and Admissions Committees;
Okanagan Senate Curriculum and Admissions and Awards Committees

Re: UBC Vantage College Curriculum Proposals (approval)
Applied Science (Engineering) and Management Streams

The Senates' committees have reviewed the material forwarded to them by UBC Vantage College and the faculties and encloses those proposals it deems as ready for approval.

A. International Program Engineering Stream

The following is recommended to both Vancouver and Okanagan Senates:

Motion 1: *“That the new International Program Engineering Stream and its associated new courses VANT 150 (2), 151 (1) brought forward by UBC Vantage College and the Faculty of Applied Science be approved.”*

The following is recommended to Vancouver Senate:

Motion 2: *“That the revised Bachelor of Applied Science admissions requirements and the new courses APSC 172 (3), 173 (3), 178 (4), 180 (3), 182 (3), 183 (3) brought forward by UBC Vantage College and the Faculty of Applied Science be approved.”*

The following is recommended to Okanagan Senate:

Motion 3: *“That the revised Bachelor of Applied Science admissions requirements brought forward by the Faculty of Applied Science be approved.”*



B. International Program Management Stream

The following is recommended to both Vancouver and Okanagan Senates:

Motion 1: *“That the new International Program Management Stream, and the Bachelor of Management transition requirements brought forward by UBC Vantage College be approved.”*

The following is recommended to Vancouver Senate:

Motion 2: *“That the new MGMT (Management) course code and new courses MGMT 100 (3), 200 (3) brought forward by UBC Vantage College be approved.”*

The following is recommended to Okanagan Senate:

Motion 3: *“That the revised Bachelor of Management admissions requirements brought forward by the Faculty of Management be approved.”*

Respectfully submitted,

Dr. Peter Arthur, Chair, Okanagan Senate Curriculum Committee
Mrs. Carol Jaeger, Vice-Chair, Vancouver Senate Curriculum Committee
Dr. Robert Sparks, Chair, Vancouver Senate Admissions Committee
Dr. Spiro Yannacopoulos, Chair, Okanagan Senate Admissions and Awards Committee

**A. INTERNATIONAL PROGRAM ENGINEERING STREAM**

VANCOUVER ACADEMIC CALENDAR**UBC VANTAGE COLLEGE** [Motion 1]*New program stream, and new courses.*

UBC Vantage College>Program Requirements>Engineering Stream; UBC Vantage College>Admission>Engineering Stream; UBC Vantage College>Transition into UBC Degree Programs>Engineering Stream; VANT 150 (2) Sustainability and Engineering Design; VANT 151 (1) Multidisciplinary Engineering Design Project

FACULTY OF APPLIED SCIENCE [Motion 2]*Revised program, and new courses.*

Applied Science>Bachelor of Applied Science>Admission>Transition from UBC Vantage College Engineering Stream; APSC 172 (3) Engineering Analysis I; APSC 173 (3) Engineering Analysis II; APSC 178 (4) Electricity, Magnetism, and Waves; APSC 180 (3) Statics; APSC 182 (3) Matter and Energy I; APSC 183 (3) Matter and Energy II

OKANAGAN ACADEMIC CALENDAR**FACULTY OF APPLIED SCIENCE** [Motion 3]*Revised program.*

School of Engineering>Bachelor of Applied Science Program>Admission Requirements>Transition from UBC Vantage College

B. INTERNATIONAL PROGRAM MANAGEMENT STREAM

VANCOUVER ACADEMIC CALENDAR**UBC VANTAGE COLLEGE** [Motion 1]*New program stream.*

UBC Vantage College>Program Requirements>Management Stream; UBC Vantage College>Admission>Management Stream; UBC Vantage College>Transition into UBC Degree Programs>Management Stream

UBC VANTAGE COLLEGE [Motion 2]*New course code, and new courses.*

MGMT (Management Course Code); MGMT 100 (3) Introduction to Canadian Business; MGMT 200 (3) Personal and Corporate Social Responsibility

OKANAGAN ACADEMIC CALENDAR**FACULTY OF MANAGEMENT** [Motion 3]*Revised program.*

Management>Bachelor of Management Program>Admission Requirements>Transition from UBC Vantage College

Curriculum Proposal
UBC Vantage College
Engineering Stream
February 11, 2015

Introduction

In 2012 UBC approved a plan to build a suite of transitional programs designed to assist international students having strong academic competencies in discipline specific coursework, but lacking sufficient English language capabilities, in successfully adapting to university-level instruction at UBC. Vantage College was established in March 2013 for this purpose. Two streams were created and approved in spring of 2014, Arts and Science, with the goal of assisting students in transitioning to either year 2 in either a BA or BSc program, in the Faculty of Arts or the Faculty of Science, respectively. The first cohorts of students were welcomed in the fall of 2014 and the first intake consists of 186 students. The program runs for 11 months and features sufficient coursework to allow students who successfully complete the program to qualify for second year standing. The program also features significant English language support embedded within the program such that students are receiving instruction, support, and guidance that is fully integrated with their discipline specific coursework. The program is designed such that students who complete all courses in their chosen stream with an overall average of 60% or higher will be considered to have met the UBC English Language Admissions Standard (ELAS) requirements.

The goal of the University is to expand the number and types of streams offered through Vantage College to include additional undergraduate degree programs. This proposal is for the creation of a unique stream to be called the “Engineering Stream”. We are currently planning for a cohort of approximately 60 – 75 students. This proposal contains the following documentation:

- 1) Documentation describing the overall design of the Engineering Stream including information about the philosophy, curriculum, resources, and positioning within the Faculty of Applied Science (this document).
- 2) Calendar entries: admissions and transition.
- 3) Curriculum documentation for new courses.
- 4) Consultations with other faculties and the Library.
- 5) Budget forms.

Engineering at UBC

Engineering at UBC is unique in that programs are offered on both the Vancouver and the Okanagan campuses under the administration of a single faculty: the Faculty of Applied Science. There are currently 3 accredited programs available at the Okanagan Campus and 12 accredited programs available at the Vancouver campus (including one joint program co-delivered with UNBC). A number of key initiatives over the past year are complementary with this Vantage One Engineering Stream proposal. In particular we are currently in the process of curriculum redesign of our first year program

on the Vancouver campus with the goals of providing a more substantial introduction to the profession, enhancing the engineering design content, and providing students with a stronger connection to the engineering community at UBCV. The first year curriculum at UBCO already contains high quality engineering design opportunities for engineering students, and provides some valuable insights for us on the Vancouver campus. Additionally, over the past year we have been working towards developing a stronger connection between the faculty, staff, and students at our two campuses. The Vantage One program provides an excellent opportunity for us to work together to create a program that will allow student transition to either campus. In the long term this may also result in the ability to enhance student mobility between campuses in subsequent years of their programs. Developing a relationship with the Instructional team at Vantage College that specializes in English language support will be a valuable asset to our programs on both campuses as we learn how to better support international students across a wider spectrum of English language capabilities, both at Vantage College and in our direct entry first year program.

Curriculum Redevelopment Resources

The first year engineering curriculum carries a higher total credit value as compared to the first year of either a BA or BSc. Our typical direct entry first year program is 36 credits. The additional language support that is a cornerstone of the Vantage College program makes it impossible to offer a complete first year equivalent program, however it is possible to deliver a sufficiently large percentage of the standard programs at both UBCV and UBCO to be able to allow students to transition to second year in the majority of our programs. The choice of courses to include (and those to leave out) has been carefully constructed to allow as many programs as possible to be available to students in second year, and to satisfy the UBC ELAS requirements.

Because we feel that a strong emphasis on engineering design is a key part of both the Vantage College Engineering Stream and of our existing direct entry programs, we are proposing to utilize significant portions of the existing UBCO first year curriculum, which features a well-developed integration of foundation material and engineering science and design. While the proposed courses exist and have been successfully delivered on the Okanagan campus for several years, they need to be 'created' via the standard curriculum process at UBCV. These courses are: APSC 172, 173, 178, 182, and 183.

We are also proposing slightly modified versions of the established VANT 148 and 149, which we propose to name VANT 150 and VANT 151. While we wish to preserve the structure and intent of the VANT 148 and 149 courses with regards to the mini-projects, student-lead conference and the small group mentorship component, there is a desire to make the course content more relevant for an engineering student, with real world engineering scenarios, problems and projects, incorporating cross-cutting themes such as sustainability, the impact of technology on the environment and on society, and the fundamentals of engineering design. The creation of a variation of the established VANT 148 and 149 that is distinct to the Engineering Stream is an essential component as regards our accreditation needs. Content, the licensure status of the instructional team for engineering design components, and

the ability to verify that a student has completed the correct material (as opposed to sharing the existing course codes and running parallel versions under one code) are all crucial requirements for our Engineering programs.

The Vantage College instructional team includes experts in English language literacy education, and we would be using the same approach of incorporating the VANT 140 tutorials into our program as well as English language instruction and support in VANT 150 and 151 (in the same style as is provided for VANT 148 and 149).

We have put in a proposal for a large Teaching and Learning Enhancement Fund (TLEF) grant targeted at the curriculum redesign of our direct entry first year program at UBC, which has recently been approved. The goals of the project of providing a more substantial introduction to the profession, enhancing the engineering design content, and providing students with a stronger connection to the engineering community at UBCV. This project will result in deliverables that will be directly relevant to the Vantage One Engineering stream and that can be incorporated into some of the courses that we are proposing for the program.

Instructional Team Philosophy

Two important factors in the structure of the Vantage One program are the preservation of small student cohorts and the deployment of an instructional team that is both limited in size and committed to being involved in multiple courses as well as taking on an important mentorship role in the College. The goal is to have instructors participating in multiple courses, including foundation material, tutorials, and design courses, to facilitate the mentoring relationship with the students and to allow instructors to integrate material from a variety of courses into an engineering context. In the two winter terms to be offered on the Vancouver campus, the intent is to deploy instructors such that they teach two foundation courses and also contribute to VANT 150. On the Okanagan campus, a technical communications instructor will teach APSC 176 and will coordinate with the instructor for VANT 151 to align the content of both courses. A second instructor will teach APSC 180 and the technical material in VANT 151. The Faculty of Applied Science further feels that this level of commitment is not only advantageous to the students of Vantage College, but also of benefit to the Faculty in that the Vantage Engineering Stream instructors will gain valuable experience that will inform curriculum development in subsequent years of our programs.

Admission Requirements

Admission to the Vantage Engineering Stream would be administered in the same way as the existing Arts and Science Streams. Students apply to UBC, and applications of students who show strong discipline specific grades in the prerequisite courses for eligibility for the UBC engineering programs but insufficient ELAS qualifications are reviewed by UBC Admissions for possible acceptance to Vantage College and its streams. The proposed admissions text is included in a standard UBC two-column format curriculum document in an appendix to this document.

Program Requirements

Students are required to take courses designed to prepare them for entry to participating undergraduate degree programs and UBC Vantage College reserves the right to limit student enrolment accordingly. Specific course requirements will be set out by the College from time to time and will be adjusted to synchronize with undergraduate degree program first-year curricula. With permission of the College, students may take up to 6 credits of 100-level UBC coursework not included in the 11-month International Program.

Students must complete the following courses (see Appendix A for course descriptions):

- APSC 160
- APSC 172
- APSC 173
- APSC 176
- APSC 178
- APSC 180
- APSC 182
- APSC 183
- LLED 200* and LLED 201*
- VANT 140*
- VANT 150 and VANT 151

Total Credits: 41 credits

*Credits will not count toward requirements for a Bachelor of Applied Science degree at UBC.

Example Course Schedule, Engineering Stream

Term 1 (UBCV)	Term 2 (UBCV)	Summer Term (UBCO) (May 11-July 22)
APSC 160 (3)	APSC 173 (3)	APSC 176 (3)
APSC 172 (3)	APSC 178 (4)	APSC 180 (3)
APSC 182 (3)	APSC 183 (3)	
LLED 200 (3)	LLED 201 (3)	
VANT 150 (2)		VANT 151 (1)
VANT 140 (3)		VANT 140 (1)

Note that all students in the Engineering Stream will be located at the Okanagan campus for the summer term. As such, elements of this proposal will also be submitted to the Okanagan Senate for approval. Specifically, VANT 151 and VANT 140 will need to be established at the Okanagan campus, and the admission and transition statements will need to be approved for the UBCO calendar.

The School of Engineering at UBCO is part of the UBC Faculty of Applied Science. The programs at UBCO are structured distinctly from the UBCV offerings. At UBCO, Engineering students have two common years before streaming into individual programs. At UBCV there is only one common year before program selection. The curriculum for the Engineering Stream of the Vantage program has been designed to provide as many credits towards either first-year program as possible, recognizing that it is not possible to offer a program that meets 100% of the first year degree requirements due to the

additional time required for language support. The transition from first to second year can be a difficult one for direct entry UBCV engineering students, in part because of the increased emphasis on the application of theoretical material in second year courses. The courses proposed for the Vantage One Engineering Stream will be taught in such a way that a strong connection between theory and application is made from the outset of the program. This will be accomplished through means including the following:

- Making connections between theory and types of engineering problems for which the solution of said problems are dependent on understanding and correct application of the theory.
- Utilizing problem sets and in-class problem solving activities as opportunity to set engineering-inspired problems related to a variety of engineering disciplines.
- Making connections between course content in more than one course. There are multiple, parallel, opportunities to achieve this, most of which rely on exploiting the fact that each instructor will be teaching more than one course and contributing to VANT 150/151 and participating in VANT 140 tutorials.

The following table shows the relationship between courses at our two campuses. This table summarizes the equivalencies between the Vantage One Engineering Stream and the direct entry first year programs.

Equivalency guide between UBCV and UBCO

Vantage Engineering Stream	UBCO School of Engineering	UBCV
VANT 150 and VANT 151 (3)	APSC 169 (3)	APSC 101 (3)**
APSC 160 (3)	APSC 177 (3)	APSC 160 (3)
APSC 172 (3)	APSC 172 (3)	MATH 100 (3) MATH 101 (3)
APSC 173 (3)	APSC 173 (3)	
APSC 176 (3)	APSC 176 (3)	APSC 176 (3) (accepted as a prerequisite to APSC 201 or equivalent)
APSC 178 (4)	APSC 178 (4)	CHEM 154 (3) PHYS 157 (3) PHYS 158 (3) PHYS 159 (1) PHYS 170 (3) Note: the correspondence between these courses is not 1:1, but may be considered in groups as a 'block transfer' of content.
APSC 182 /183 (6)	APSC 182/183 (6)	
APSC 180 (3)	APSC 180 (3)	

** APSC 101 is currently under development and is planned for a January 2016 start.

For transition to either campus, 28 credits of the direct entry first year program will have been completed by Vantage Engineering Stream students. Courses that will need to be completed prior to graduation are:

UBCO programs:

- APSC 171 Engineering Drawing and CAD/CAM (3 credits)
- APSC 179 Linear Algebra (2 credits)
- APSC 181 Dynamics (3 credits)

UBCV programs:

- MATH 152 Linear Algebra (3 credits)
- Complementary studies – humanities (3 credits)
- 2 credits to be determined – students may be given an exemption for APSC 100 (3), currently under development, with the expectation that they would take an additional technical elective in its place. This is subject to the final curriculum revisions for the direct entry first year program at UBCV planned for September 2015.

Note: Though a complete course in linear algebra could not be accommodated in the proposed Engineering Stream, UBCO will make amendments to APSC 180, offered in the summer term. The course already covers vectors, dot and cross product. Additional topics to be added include matrix determinant, multiplication, inverse and solving system of equations.

Transition

The Engineering Stream for Vantage College has been designed with the intent that half of the cohort be placed at UBCO for second year and beyond, and half at UBCV. The summer term at UBCO is designed to give students exposure to the faculty members, facilities, and community at UBCO. The transition section of the calendar for the Engineering Stream has been written very carefully to ensure that the two campus placement is understood by incoming students. This information will also be clearly articulated on admission offer letters to students being admitted into the Engineering Stream. The proposed text is as follows:

Engineering Stream:

The Faculty of Applied Science delivers engineering programs at both UBC campuses: Okanagan and Vancouver. The Faculty has reserved space for all UBC Vantage College Engineering Stream students to be able to transition to a second year program. Half of the reserved spaces are located on the Okanagan campus, and the other half are located at the Vancouver campus.

UBC Vantage College students who pass all courses in the Engineering stream with an average of at least 60% will be eligible for year two of one of the two BAsC degree programs offered on either campus.

Program selection is competitive, and all students will be asked to rank both their preferred campus and their eligible program¹. Academic performance at the end of the winter session and a personal statement are considered in placing students into programs in second year.

Students who do not successfully complete the full UBC Vantage College Engineering Stream or who achieve an average lower than 60% in the full program can apply to be reviewed on a case-by-case basis for evidence of academic promise for continued study in Engineering at UBC.

The UBC Vantage College Engineering Stream is not equivalent to the direct-entry BASc first year programs. Therefore, while successful completion of the Vantage College Engineering Stream will result in eligibility for second year standing, there are program requirements normally completed in first year that will not have been met and that must be completed prior to graduation. Please consult [here](#) for details on Vancouver Engineering programs and [here](#) for details on Okanagan Engineering programs.

¹Eligible programs include: Okanagan Campus: Electrical, Mechanical and Civil Engineering. Vancouver Campus: Chemical, Chemical and Biological, Computer, Electrical, Environmental, Geological, Integrated, Materials, and Mining Engineering.

Students will have had significant exposure to both campuses, thus giving all students first-hand experience of the communities in both Vancouver and Kelowna. Students will be encouraged to make use of engineering student spaces at both campuses and to participate in social activities. Students will use engineering facilities at both campuses, in particular laboratory space and computing facilities, for some courses.

Instructional Resources

Vantage College will cover the instructional costs necessary for the discipline specific courses in the Engineering Stream. In the long term, additional instructors (in the Educational Leadership Ranks) will be hired to support this stream. In the short term, and particularly in the event that new instructors are not hired with sufficient lead time to be adequately prepared for the initial cohort, instructors will be seconded from departments within the Faculty of Applied Science, and sessional instructors will be appointed where necessary to fill any voids in either existing programs or the new Vantage Engineering Stream. Engineering programs require instructors with Professional Engineering licensure for the delivery of engineering science and engineering design content, this is part of the accreditation requirements. Instructors hired thus far in the Arts and Science streams have been assigned approximately two thirds of their teaching duties in the Vantage program and one third in their home department. Therefore, in order to satisfy accreditation requirements both within the Vantage program and within home departments, instructors will need to be eligible for P.Eng. designation.

English language instruction and associated language support will also be provided by Vantage College. The Engineering Stream is designed to be consistent with the existing Arts and Science Streams as regards English language support in order to facilitate a smooth expansion of the College for this new stream. The course APSC 176 (Engineering Communication), which does exist at both campuses, is scheduled to be offered in the summer term at UBCO and could be either taught by or coordinated by

technical communications instructors already in place at the UBCO School of Engineering. This may, as is the case with discipline specific, require some additional resources to backfill for the exiting engineering programs.

Infrastructure Resources

The Faculty of Applied Science will use its existing infrastructure to provide any specialized teaching and laboratory space required. This will be facilitated through a customized schedule for the stream. The Vantage One program is an immersive English language program with a strong cohort structure. The 11 month program is intended to provide not only the necessary instruction, but also the best possible community for the enrolled students. We are committed to fostering a strong and inclusive community for our engineering students, and fully expect to extend this commitment to the Vantage Engineering cohort. At both campuses we will make the appropriate facilities available to the Engineering stream. Specific examples of these resources are as follows:

- Chemistry labs can be held in the Chemical and Biological Engineering Building
- PC labs can be made available in the Electrical and Computer Engineering Building or other computer labs existing within Faculty of Applied Science buildings for both computer programming and computer-based math tutorials and/or assignments
- Electronics labs can be accessed in the Electrical and Computer Engineering Building for circuit experiments, electromagnetics labs, and design activities as appropriate
- The Engineering Design Centre can be used for engineering design activities and hands-on mini projects, and also has gathering and study spaces available for group work
- Thermodynamics experiments can be facilitated in the Civil and Mechanical Engineering Building
- Undergraduate lab space at UBCO for the engineering design project in the summer term

Appendices

Appendix 1: Course descriptions for proposed Engineering Stream Curriculum

Existing At UBCV

LLED 200: Introduction to Writing in Academic and Professional Registers

This course introduces students to writing in university. It promotes deeper understanding of the role of language in achieving academic and professional registers by providing explicit instruction in language-linked strategies for writing effectively, individualized feedback, and extensive opportunities to write across a variety of university registers.

LLED 201: Critical Reading and Writing in Academic and Professional Registers

In this course, the heightened awareness of effective academic writing gained in LLED 200 is applied to a small research project that students design, implement and report on. Students receive explicit, critically-framed instruction in reading and writing academic reports, and individualized feedback on the draft sections of their research paper, including a research proposal.

VANT 140 (1-7) d Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

APSC 160 (3) Introduction to Computation in Engineering Design

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211.

APSC 176 (3) Engineering Communication

Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations. Community Service Learning projects are integrated into existing assignments.

Existing at UBCO**APSC 172 Engineering Analysis I**

Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals.

APSC 173 Engineering Analysis II

Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives.

Credits: 3

Pre-reqs: APSC 172.

APSC 176 Engineering Communication

Written and oral presentations, formal and informal. Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations.

Credits: 3

APSC 178 Electricity, Magnetism, and Waves

Coulomb's law, electric field, Gauss' law, electric potential, conductors, capacitance, electric currents, resistance, DC circuits, magnetic fields and forces, sources of magnetic fields, electromagnetic induction, mechanical waves, electromagnetic waves, light propagation, geometrical optics. Credits: 4

APSC 180 Statics

Force vectors, Cartesian coordinate system, free body diagram, dot and cross products, forces equilibrium of particles, force and moment equilibrium of rigid bodies, analysis of trusses, frames and machines, friction, wedges, pulleys, and belts. Applications of linear algebra in statics. Credit will not be granted for both APSC 180 and APSC 174.

Credits: 3

APSC 182 Matter and Energy I

Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. Credit will not be granted for both APSC 182 and APSC 175.

Credits: 3

APSC 183 Matter and Energy II

Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. Credit will not be granted for both APSC 183 and APSC 175.

Credits: 3

Proposed new courses (not existing on either campus):

VANT 150 (2) Sustainability and Engineering Design

Topics in sustainability, including the impact of technology on the environment and society, and fundamentals of engineering design. Restricted to students in the UBC Vantage College International Program Engineering Stream. [1-0-1; 1-0-1]

VANT 151 (1) Multidisciplinary Engineering Design Project

Design project that culminates in student-led project fair. [1-0-1] Pre-requisites: VANT 150

Appendix 2: Calendar entries for proposed Engineering Stream curriculum

[Removed for purposes of Curriculum.]



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

Faculty: UBC Vantage College Department: Faculty Approval Date: January 28 th , 2015 Effective Date for Change: 15S	Date: Feb 13, 2015 Contact Person: Dr. Joanne Fox Phone: 604-827-0339 Email: joanne.fox@ubc.ca
Proposed Calendar Entry: Program Requirements Students ... in the 11-month Program. UBC Vantage College International Program Streams Arts Stream ... Science Stream ... Engineering Stream Students must complete: <ul style="list-style-type: none"> • APSC 160 • APSC 172 • APSC 173 • APSC 176 • APSC 178 • APSC 180 • APSC 182 • APSC 183 • LLED 200¹ • LLED 201¹ • VANT 140¹ • VANT 150 • VANT 151 Total Credits <i>38 credits</i> ¹ Credits will not count toward requirements for a Bachelor of Applied Science degree at UBC.	URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,943,0 Present Calendar Entry: Program Requirements Students ... in the 11-month Program. UBC Vantage College International Program Streams Arts Stream ... Science Stream ... Students ... during a supplemental term. Type of Actions: Update information in the Calendar entry to include program requirements for the Engineering stream in the Vantage program. Rationale for Proposed Change: This curricula update sets out the specific course requirements for an Engineering stream in the Vantage program. The courses in the Vantage Program streams will each have dedicated sections restricted to UBC Vantage College students. Please see attached supporting document for additional information.
Students ... during a supplemental term.	



Supporting Document

UBC Vantage College offers an 11-month International Program for exceptional graduates from school systems that are very different from North America's, and where students are taught in languages other than English.

Students are required to take courses designed to prepare them for entry to participating undergraduate degree programs and UBC Vantage College reserves the right to limit student enrolment accordingly. UBC Vantage College worked with the Faculties of Arts, Applied Sciences, Education, Management, Science and Departments in each of these Faculties to identify courses that would create a cohesive program with particular resonance for international students. Specific course requirements will be set out by the College from time to time and will be adjusted to synchronize with undergraduate degree program first-year curricula. The courses in the Vantage College streams will each have dedicated sections restricted to UBC Vantage College students. With permission of the College, students may take up to 6 credits of 100-level UBC coursework not included in the 11-month International Program.

Example Course Schedule, Engineering Stream

Term 1	Term 2	Summer Term
APSC 172 (3) APSC 182 (3) APSC 183 (3) LLED 200 (3)	APSC 160 (3) APSC 173 (3) APSC 178 (4) LLED 201 (3)	APSC 176 (3) APSC 180 (3)
VANT 140 (3) VANT 150 (2)		VANT 140 (1) VANT 151 (1)



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: UBC Vantage College Faculty Approval Date: Feb. 19, 2015 Effective Date for Change: 15S</p>	<p>Date: Feb. 19, 2015 Contact Person: Dr. Joanne Fox Phone: 604-827-0339 Email: joanne.fox@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p><i>Admission</i> ... All applicants to UBC Vantage College must demonstrate:</p> <ul style="list-style-type: none"> • a minimum level of English proficiency as indicated in the English Language requirement section. • a suitable level of academic proficiency in the senior level of secondary school study in their domestic curriculum equivalent to having at least a 70% average in the BC/Yukon Secondary School curriculum. <p>Further, students applying to the Engineering stream in the International Program must have completed:</p> <ul style="list-style-type: none"> • senior-level Mathematics (Pre-Calculus) • senior-level Chemistry • senior-level Physics <p>Further, students applying to the science stream in the International Program must have completed...</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,939,0</p> <p>Present Calendar Entry:</p> <p><i>Admission</i> ... All applicants to UBC Vantage College must demonstrate:</p> <ul style="list-style-type: none"> • a minimum level of English proficiency as indicated in the English Language requirement section. • a suitable level of academic proficiency in the senior level of secondary school study in their domestic curriculum equivalent to having at least a 70% average in the BC/Yukon Secondary School curriculum. <p>Further, students applying to the science stream in the International Program must have completed</p> <p>Type of Actions: Update information in the Vantage College Admissions Calendar entry to include admissions requirements for the Engineering stream.</p> <p>Rationale for Proposed Change: This update outlines that the admissions requirements for the Engineering stream in the International Program are the same as the program specific admissions for Applied Science. See: http://you.ubc.ca/admissions/international-highschools/</p>



UBC Admission Proposal Form Change to Course or Program

Faculty: UBC Vantage College Faculty Approval Date: March 12, 2015 Effective Session (W or S): S Effective Academic Year: 2015	Date: March 12, 2015 Contact Person: Dr. Joanne Fox Phone: 7-0339 Email: joanne.fox@ubc.ca
Proposed Calendar Entry: <i>Transition into UBC Degree Programs</i> ... Arts Stream ... Science Stream ... Engineering Stream The Faculty of Applied Science delivers engineering programs at both UBC campuses: Okanagan and Vancouver. The Faculty has reserved space for all UBC Vantage College Engineering Stream students to be able to transition to a second year program. Half of the reserved spaces are located on the Okanagan campus, and the other half are located at the Vancouver campus. UBC Vantage College students who pass all courses in the Engineering stream with an average of at least 60% will be eligible for year two of the BSc degree program. Program selection is competitive, and all students will be asked to rank both their preferred campus and their eligible program¹. Academic performance at the end of the winter session and a personal statement are considered in placing students into programs in second year.	URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,945,0 Present Calendar Entry: <i>Transition into UBC Degree Programs</i> ... Arts Stream ... Science Stream ... Type of Action: Add information to the Calendar entry to include details on how students in the Engineering stream transition into UBC degree programs. Rationale for Proposed Change: The Engineering Stream for Vantage College has been designed with the intent that half of the cohort be placed at UBCO for second year and beyond, and half at UBCV. The summer term at UBCO is designed to give students exposure to the faculty members, facilities, and community at UBCO. The transition section of the calendar for the Engineering Stream has been written very carefully to ensure that the two campus placement is understood by incoming students. This information will also be clearly articulated on admission offer letters to students being admitted into the Engineering Stream.



Students who do not successfully complete the full UBC Vantage College Engineering Stream or who achieve an average lower than 60% in the full program can apply to be reviewed on a case-by-case basis for evidence of academic promise for continued study in Engineering at UBC.

The UBC Vantage College Engineering Stream is not equivalent to the direct entry BAsC first year program. Therefore, while successful completion of the Vantage College Engineering Stream will result in eligibility for second year standing, there are program requirements normally completed in first year that will not have been met and that must be completed prior to graduation. Please consult [here](#) for details on Vancouver Engineering programs and [here](#) for details on Okanagan Engineering programs.

¹Eligible programs include: Okanagan Campus: Electrical, Mechanical and Civil Engineering. Vancouver Campus: Chemical, Chemical and Biological, Computer, Electrical, Environmental, Geological, Integrated, Materials, and Mining Engineering.

UBC Curriculum Proposal Form

Change to Course or Program

Category: (1)

Faculty: UBC Vantage College Faculty Approval Date: Feb 13, 2015 Effective Session (W or S): W Effective Academic Year: 2015	Date: February 13 th , 2015 Contact Person: Joanne Fox Phone: 604-827-0339 Email: joanne.fox@ubc.ca
Proposed Calendar Entry: VANT 150 (2) Sustainability and Engineering Design Topics in sustainability, including the impact of technology on the environment and society, and fundamentals of engineering design. Restricted to students in the UBC Vantage College Engineering Stream. [1-0-1; 1-0-1]	Present Calendar Entry: N/A Type of Action: Create new course. Rationale for Proposed Change: This course will be offered as part of the Vantage One Program curricula, but will be specific to Engineering students and will include elements of engineering design, sustainability, and the impact of technology on the environment and on society. This course will follow the format of VANT 148, and will mirror as closely as possible the pedagogic framework including the language support for students. The distinct course code and customized content for Engineering Stream students is critical for us to ensure that accreditation requirements can be tracked and monitored.
Proposed Calendar Entry: VANT 151 (1) Multidisciplinary Engineering Design Project Design project that culminates in student-led project fair. Restricted to students in the UBC Vantage College Engineering Stream. [1-0-1] Pre-requisites: VANT 150	Present Calendar Entry: N/A Type of Action: Create new course Rationale for Proposed Change: This course will be offered as part of the Vantage One Program curricula. It is similar in intent to VANT 149 but will focus on engineering design and will culminate in a student led and organized project fair. This course builds on VANT 150, in which the principles of engineering design will have been introduced. This course will follow the format of VANT 149, and will mirror as closely as possible the pedagogic framework including the language support for students. The distinct course code and customized content for Engineering Stream students is critical for us to ensure that accreditation requirements can be tracked and monitored.



UBC Admission Proposal Form Change to Course or Program

<p>Faculty: UBC Vantage College Faculty Approval Date: March 12, 2015 Effective Session (W or S): S Effective Academic Year: 2015</p>	<p>Date: March 12, 2015 Contact Person: Dr. Joanne Fox Phone: 7-0339 Email: joanne.fox@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p><i>Admission</i> ... Admission from a Post-Secondary Institution Applicants from another faculty at UBC ...</p> <p>Transition from UBC Vantage College Engineering Stream</p> <p>The Faculty of Applied Science delivers engineering programs at both UBC campuses: Okanagan and Vancouver. The Faculty has reserved space for all UBC Vantage College Engineering Stream students to be able to transition to a second year program. Half of the reserved spaces are located on the Okanagan campus, and the other half are located at the Vancouver campus.</p> <p>UBC Vantage College students who pass all courses in the Engineering stream with an average of at least 60% will be eligible for year two of the BASc degree program.</p> <p>Program selection is competitive, and all students will be asked to rank both their preferred campus and their eligible program¹. Academic performance at the end of the winter session and a personal statement are considered in placing students into programs in second year.</p> <p>Students who do not successfully complete</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,195,272,28</p> <p>Present Calendar Entry:</p> <p><i>Admission</i> ... Admission from a Post-Secondary Institution Applicants from another faculty at UBC ...</p>



the full UBC Vantage College Engineering Stream or who achieve an average lower than 60% in the full program can apply to be reviewed on a case-by-case basis for evidence of academic promise for continued study in Engineering at UBC.

The UBC Vantage College Engineering Stream is not equivalent to the direct entry BASc first year program. Therefore, while successful completion of the Vantage College Engineering Stream will result in eligibility for second year standing, there are program requirements normally completed in first year that will not have been met and that must be completed prior to graduation. Please consult [here](#) for details on Vancouver Engineering programs and [here](#) for details on Okanagan Engineering programs.

¹Eligible programs include: Okanagan Campus: Electrical, Mechanical and Civil Engineering. Vancouver Campus: Chemical, Chemical and Biological, Computer, Electrical, Environmental, Geological, Integrated, Materials, and Mining Engineering.

Admission from UBC Engineering Transfer Programs

...

Admission from UBC Engineering Transfer Programs

...

Type of Action:

Add information to the Calendar entry to include details on how students in the UBC Vantage College Engineering stream transition into the Faculty of Applied Science

Rationale for Proposed Change:

The Engineering Stream for Vantage College has been designed with the intent



that half of the cohort be placed at UBCO for second year and beyond, and half at UBCV. The summer term at UBCO is designed to give students exposure to the faculty members, facilities, and community at UBCO. The transition section of the calendar for the Engineering Stream has been written very carefully to ensure that the two campus placement is understood by incoming students. This information will also be clearly articulated on admission offer letters to students being admitted into the Engineering Stream.

Category 1

Faculty: Applied Science Department: APSC Faculty Approval Date: February 5, 2015 Effective Session (W or S): S Effective Academic Year: 2015	Date: December 18, 2014 Contact Person: Carol Jaeger Phone: 2-2592 Email: carolj@apsc.ubc.ca
Proposed Calendar Entry: APSC 172 (3) Engineering Analysis I Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals. [3-0-1]	Present Calendar Entry: N/A Type of Action: Create New Course Rationale for Proposed Change: This course is currently offered in the School of Engineering at the UBC Okanagan campus. Formalizing the same course at UBCV allows delivery of the course in Vancouver, and enhances student mobility between campuses. X Not available for Cr/D/F grading Rationale for not being available for Cr/D/F: Core courses in APSC are generally not eligible for Cr/D/F
Proposed Calendar Entry: APSC 173 (3) Engineering Analysis II Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives. [3-0-1] <i>Prerequisite:</i> APSC 172.	Present Calendar Entry: N/A Type of Action: Create New Course Rationale for Proposed Change: This course is currently offered in the School of Engineering at the UBC Okanagan campus. Formalizing the same course at UBCV allows delivery of the course in Vancouver, and enhances student mobility between campuses. X Not available for Cr/D/F grading Rationale for not being available for Cr/D/F: Core courses in APSC are generally not eligible for Cr/D/F
Proposed Calendar Entry: APSC 178 (4) Electricity, Magnetism, and Waves Coulomb's law, electric field, Gauss' law, electric potential, conductors, capacitance, electric currents, resistance, DC circuits, magnetic fields and forces, sources of magnetic fields, electromagnetic induction, mechanical waves, electromagnetic waves, light propagation, geometrical optics. [4-0-2] <i>Prerequisite:</i> APSC 172. <i>Corequisite:</i> APSC 173.	Present Calendar Entry: N/A Type of Action: Create New Course Rationale for Proposed Change: This course is currently offered in the School of Engineering at the UBC Okanagan campus. Formalizing the same course at UBCV allows delivery of the course in Vancouver, and enhances student mobility between campuses. X Not available for Cr/D/F grading Rationale for not being available for Cr/D/F: Core courses in APSC are generally not eligible for Cr/D/F
Proposed Calendar Entry:	Present Calendar Entry: N/A

<p>APSC 180 (3) Statics</p> <p>Force vectors, Cartesian coordinate system, free body diagram, dot and cross products, forces equilibrium of particles, force and moment equilibrium of rigid bodies, analysis of trusses, frames and machines, friction, wedges, pulleys, and belts. Applications of linear algebra in statics. [3-0-2]</p>	<p>Type of Action: Create New Course</p> <p>Rationale for Proposed Change: This course is currently offered in the School of Engineering at the UBC Okanagan campus. Formalizing the same course at UBCV allows delivery of the course in Vancouver, and enhances student mobility between campuses.</p> <p>X Not available for Cr/D/F grading</p> <p>Rationale for not being available for Cr/D/F: Core courses in APSC are generally not eligible for Cr/D/F</p>
<p>Proposed Calendar Entry:</p> <p>APSC 182 (3) Matter and Energy I</p> <p>Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. [2-2*-2*]</p>	<p>Present Calendar Entry: N/A</p> <p>Type of Action: Create New Course</p> <p>Rationale for Proposed Change: This course is currently offered in the School of Engineering at the UBC Okanagan campus. Formalizing the same course at UBCV allows delivery of the course in Vancouver, and enhances student mobility between campuses.</p> <p>Category 1</p> <p>X Not available for Cr/D/F grading (undergraduate courses only)</p> <p>Rationale for not being available for Cr/D/F: Core courses in APSC are generally not eligible for Cr/D/F</p>
<p>Proposed Calendar Entry:</p> <p>APSC 183 (3) Matter and Energy II</p> <p>Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. [2-2*-2*]</p>	<p>Present Calendar Entry: N/A</p> <p>Type of Action: Create New Course</p> <p>Rationale for Proposed Change: This course is currently offered in the School of Engineering at the UBC Okanagan campus. Formalizing the same course at UBCV allows delivery of the course in Vancouver, and enhances student mobility between campuses.</p> <p>X Not available for Cr/D/F grading</p> <p>Rationale for not being available for Cr/D/F: Core courses in APSC are generally not eligible for Cr/D/F</p>



Admissions Proposal Form Okanagan Campus

Faculty/School: School of Engineering Dept./Unit: School of Engineering Faculty/School Approval Date: Feb 11 th , 2015 Effective Session: 2015W	Date: February 16 th , 2015 Contact Person: Dr. Yang Cao Phone: 250.807.9643 Email: yang.cao@ubc.ca
Type of Action: New Admissions requirements – Faculty / College level	
Rationale: The Engineering Stream for Vantage College has been designed with the intent that half of the cohort be placed at UBCO for second year and beyond, and half at UBCV. The summer term at UBCO is designed to give students exposure to the faculty members, facilities, and community at UBCO. The transition section of the calendar for the Engineering Stream has been written very carefully to ensure that the two campus placement is understood by incoming students. This information will also be clearly articulated on admission offer letters to students being admitted into the Engineering Stream.	
Proposed Academic Calendar Entry: Admission Requirements ... [13608] Admission from UBC Engineering Transfer Programs ... [Article ID] Transition from UBC Vantage College The Faculty of Applied Science delivers engineering programs at both UBC campuses: Okanagan and Vancouver. The Faculty has reserved space for all UBC Vantage College Engineering Stream students to be able to transition to a second year program. Half of the reserved spaces are located on the Okanagan campus, and the other half are located at the Vancouver campus. UBC Vantage College students who pass all courses in the Engineering stream with an average of at least 60% will be eligible for year two of the BASc degree program. Program selection is competitive, and all students	Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,317,989,1183 Present Academic Calendar Entry: Admission Requirements ... [13608] Admission from UBC Engineering Transfer Programs ...



will be asked to rank both their preferred campus and their eligible program¹. Academic performance at the end of the winter session and a personal statement are considered in placing students into programs in second year.

Students who do not successfully complete the full UBC Vantage College Engineering Stream or who achieve an average lower than 60% in the full program can apply to be reviewed on a case-by-case basis for evidence of academic promise for continued study in Engineering at UBC.

The UBC Vantage College Engineering Stream is not equivalent to the direct entry BASc first year program. Therefore, while successful completion of the Vantage College Engineering Stream will result in eligibility for second year standing, there are program requirements normally completed in first year that will not have been met and that must be completed prior to graduation. Please consult here for details on Vancouver Engineering programs and here for details on Okanagan Engineering programs.

¹Eligible programs include: Okanagan Campus: Electrical, Mechanical and Civil Engineering. Vancouver Campus: Chemical, Chemical and Biological, Computer, Electrical, Environmental, Geological, Integrated, Materials, and Mining Engineering.

[16129] Admission from Okanagan College Bridge Programs to Civil, Electrical, or Mechanical Engineering

[16129] Admission from Okanagan College Bridge Programs to Civil, Electrical, or Mechanical Engineering

Curriculum Proposal UBC Vantage College Management Stream

March 7, 2015

This proposal is for the creation of a unique stream in the UBC Vantage College program to be called the “Management Stream” developed in partnership with the Faculty of Management at UBC Okanagan. This proposal contains the following documentation:

- 1) Documentation providing background information and describing the overall design of the Vantage Management Stream.
- 2) Calendar entries: admissions, program requirements, and transition.
- 3) Consultations with other Faculties and the Library
- 4) Budget forms.

Introduction to UBC Vantage College

In 2012 UBC approved a plan to build a suite of transitional programs designed to assist international students having strong academic competencies in discipline specific coursework, but lacking sufficient English language capabilities, in successfully adapting to university-level instruction at UBC. Vantage College was established in March 2013 for this purpose. Two streams were created and approved in spring of 2014, Arts and Science, with the goal of assisting students in transitioning to either year 2 in either a BA or BSc program, in the Faculty of Arts or the Faculty of Science, respectively. The first cohorts of students were welcomed in the fall of 2014 and the first intake consists of 186 students. The program runs for 11 months and features sufficient coursework to allow students who successfully complete the program to qualify for second year standing. The program also features significant English language support embedded within the program such that students are receiving instruction, support, and guidance that is fully integrated with their discipline specific coursework. The program is designed such that students who complete all courses in their chosen stream with an overall average of 60% or higher will be considered to have met the UBC English Language Admissions Standard (ELAS) requirements.

Background on the Faculty of Management at UBC Okanagan

The Faculty of Management at UBC Okanagan currently offers its Bachelor’s of Management program to a growing number of international students. Given the importance of written and spoken language during the degree and after, programs which support international students and faculty in the cross-development of curriculum, and written and verbal expression by students would make a substantial contribution the Faculty of Management’s current and on-going delivery. This developing relationship between the Faculty of Management and the Instructional team at Vantage College will be a valuable asset for learning how to better support international students across a wider spectrum, both with Vantage College and international direct entry students.

A number of other key initiatives emerging within the year in the Faculty of Management at UBC Okanagan are complementary with this Vantage One Management Stream proposal. The Faculty of Management is currently in the process of curriculum redesign of the undergraduate program at UBC Okanagan from a 2+2 program to a full four year undergraduate program, which would allow students to take additional management courses throughout the four years, including a heavier emphasis on

foundational courses in year 2 as opposed to year 3. Vantage students entering into second year of management in 2016 would be able to take our foundational management courses in the 2nd year of the program.

Admission Requirements for Vantage Management stream

Admission to the Vantage Management Stream would be administered in the same way as the existing Faculty of Management students. Students apply to UBC, and applications of students who show strong discipline specific grades in the prerequisite courses for eligibility for the UBC management program but insufficient ELAS qualifications are reviewed by UBC Admissions for possible acceptance to Vantage College. The proposed admissions text is included in a standard UBC two-column format curriculum document in an appendix to this document.

Program Requirements for Vantage Management stream

Faculty of Management students in the direct entry Bachelor of Management program at UBC Okanagan currently take 60 credits of instruction across two years, with a combination of 21 credits of required courses (Math, Psychology, Economics, Statistics, English, MGMT 100 & 200) and 39 credits of optional electives in the Ike Barber School of Arts and Sciences at UBC Okanagan.

Students in the Vantage Management stream will be able to achieve 36 credits applicable towards transition into their 2nd year in Management at UBC Okanagan. 15 credits from the Vantage Management stream are required courses in the Faculty of Management program at UBC Okanagan (English, Psychology, Economics, MGMT 100 & 200), and 21 credits are elective courses (two sociology, one Management equivalent through VANT 148-149, two English equivalents through LLED 200 and WRDS 150, one Psychology, and one Economics).

Students in the Management stream will complete winter session courses at UBC Vancouver and summer session courses at UBC Okanagan. Upon successful completion of this stream students will then transition into their second year of studies in the Faculty of Management at UBC Okanagan. The Vantage Management stream is built from existing first-year UBC courses offered by the Faculties of Arts, Education at UBC Vancouver and by the Faculty of Management at UBC Okanagan. These courses will be offered in the Vantage College program with sections restricted to Vantage College students. Two existing Vantage courses are also incorporated into this program stream. There are no new courses being introduced through the Vantage Management stream. We are currently planning for a cohort of approximately 60 – 75 students.

Students in the Vantage Management stream must complete the following 40 credits of work:

Course Schedule, Management Stream

Term 1 (Vancouver Campus)	Term 2 (Vancouver Campus)	Summer Term (Okanagan Campus) (May 11-Jul 22)
ECON 101 (3) PSYC 101 (3) or PSYC 102 (3) SOCI 100A (3) WRDS 150 (3)	ECON 102 (3) PSYC 102 (3) or PSYC 208(3) SOCI 260A (3) ASTU204A (3)	MGMT 100 (3) MGMT 200 (3)
VANT 148 (2) VANT 140 (3) LLED 200 (3)		VANT 149 (1) VANT 140 (1)

Note that all students in the Management Stream will be located at the Vancouver campus for the Winter session and then at the Okanagan campus for the summer term.

Instructional Team Philosophy for this Dual Campus stream

On the Vancouver campus, courses will be taught by existing faculty and/or new hires based in the Faculty of Arts at UBC Vancouver. These faculty members will be appointed in Departments in the Faculty of Arts at the UBC Vancouver campus. Courses in the Academic English Program (LLED 200, VANT140) will be taught by Vantage Instructors based at the UBC Vancouver campus. We are exploring the possibility of hiring a faculty member in the Academic English Program who will teach in the Vantage Academic English Program at both campuses.

On the Okanagan campus, a tenure-track Instructor will be hired to work with the Vantage Management stream, to teach MGMT 100 & 200 in the summer at the UBC Okanagan campus, and to coordinate and work with students on their Vantage projects (148 & 149). This faculty member will be based at the UBC Okanagan campus in the Faculty of Management.

Vancouver courses will meet the following UBC Okanagan (UBCO) requirements as per faculty approval:

Vancouver	Okanagan	Notes
ECON 101 (3)	ECON 101 (3)	
ECON 102 (3)	ECON 102 (3)	
LLED 200 (3)	LLED 200 (3)	
PSYC 101 (3)	PSYO 111 (3)	
PSYC 102 (3)	PSYO 121 (3)	
PSYC 208 (3)	PSYO 2 nd (3)	
SOCI 100A (3)	SOCI 111 (3)	
SOCI 260A (3)	SOCI 226 (3)	
VANT 140 (4)	No Credit	No credit in BA, BSc, BAPSc, BMgt degree programs at UBCO
VANT 148 (2)	Elev1 st (2)	
VANT 149 (1)	Elev1 st (1)	
WRDS 150 (3) ASTU 204A (3)	Arts 1 st (6)	WRDS150 will meet English requirement for BA, BSc and BMgt at UBCO. For all majors under FCCS at UBCO, WRDS 150 would not meet first year English requirement.

Transition and Progression

The summer term at UBC Okanagan is designed to give students exposure to the faculty members, facilities, and community at UBC Okanagan. The proposed text for the Management Stream's progression to year two is:

Management Stream:

UBC Vantage College students in the Management stream who pass all courses with an average of at least 60% and who achieve at least 60% in WRDS 150 will be eligible for year two of the B.Mgt degree program offered at UBC Okanagan.

Students who do not successfully complete the full UBC Vantage College program or who do not meet progression requirements for year 1 will be reviewed on a case-by-case basis, where there is evidence of academic promise for study in Management.

Appendices

Appendix 1: Course descriptions for proposed Management Stream Curriculum

Please note that no new courses proposed as part of the Vantage Management stream.

The following existing courses will be taught on the UBC Vancouver campus in Terms 1 and 2 of the Vantage Management stream.

VANT 140 (1-7) d Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

VANT 148 (2) UBC Vantage College Projects

Projects linked to topics explored in the UBC Vantage College International Program curricula. [1-0-1; 1-0-1]

PSYC 101 (3) Introduction to Biological and Cognitive Psychology

Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will not be given for both PSYC 100 and PSYC 101.

PSYC 102 (3) Introduction to Developmental, Social, Personality, and Clinical Psychology

Introduction to methods and statistics, motivation, assessment, developmental, personality, clinical, and social psychology. Credit will not be given for both PSYC 100 and PSYC 102.

ECON 101 (3) Principles of Microeconomics

Elements of theory and of Canadian policy and institutions concerning the economics of markets and market behaviour, prices and costs, exchange and trade, competition and monopoly, distribution of income.

SOCI 100 (3/6) d Introduction to Sociology

Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of (i) SOCI 100C (6) or (ii) SOCI 100A (3) and SOCI 100B (3).

LLED 200 (3) Introduction to Writing in Academic and Professional Registers

Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.

WRDS 150 (3) Research and Writing in the Humanities and Social Sciences

Writing and reading in the social sciences and humanities, focusing on practices which the research disciplines share, and those which differentiate them. Credit will be granted for only one of WRDS 150 or ASTU 150. *This course is not eligible for Credit/D/Fail grading.*

ASTU 204 (3) Topics in Interdisciplinary Studies in the Humanities

PSYC 208 (3) Contemporary Topics in Social, Developmental, Personality, and Clinical Psychology

A focus on the interpretation of contemporary research in social, developmental, personality, and clinical psychology.

ECON 102 (3) Principles of Macroeconomics

Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, national income accounting, interest and exchange rates, money and banking, the balance of trade.

SOCI 260 (3/6) d Technology, Work and Society

The social forces responsible for changing patterns of technological innovation and work organization in modern industrial societies. Emphasis on the organization of work and the

labour force. Topics may include division of labour, professionalization, labour movements, management techniques and bureaucracy, the social context of research and development initiatives, the effects of new technologies (e.g., automation) on the work place and social aspects of technological development in the Third World.

The following existing courses will be taught on the UBC Okanagan campus in Term 3 of the Vantage Management stream.

VANT 140 (1-7) d Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

VANT 149 (1) Multidisciplinary Research Project

Research project that culminates in student-led conference and research presentation. [1-0-1]
Prerequisite: VANT 148.

MGMT 100 (3) Introduction to Canadian Business

Introduction to the Faculty of Management and functional areas of business including accounting, economics, finance, marketing, organizational behaviour, business policy, and entrepreneurship. Steps needed to build a successful local, national, and international competitive business. Ethical and policy decisions faced by business and government. Open to all students. [3-0-0]

MGMT 200 (3) Personal and Corporate Social Responsibility

Increase awareness of a wide range of ethical challenges, test the strengths of personal moral beliefs and ethical arguments, and utilize critical thinking skills in making ethical decisions appropriate for corporate social responsibility practices. Open to all students. [3-0-0]



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: UBC Vantage College Faculty Approval Date: February 18, 2015 Effective Date for Change: 15S</p>	<p>Date: Feb 24, 2015 Contact Person: Dr. Joanne Fox Phone: 604-827-0339 Email: joanne.fox@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>Program Requirements ... UBC Vantage College International Program Streams</p> <p>Arts Stream ... Science Stream ...</p> <p>Management Stream</p> <p>Students must complete:</p> <ul style="list-style-type: none"> • ECON 101 and ECON 102 • LLED 200 • MGMT 100 and MGMT 200 • PSYC 101 and PSYC 102; or PSYC 102 and PSYC 208 • SOCI 100¹ and SOCI260¹ • VANT 140² • VANT 148 and VANT 149 • WRDS 150³ and ASTU 204¹ <p>Total Credits 40</p> <p>¹Students must register in UBC Vantage College specific course sections. ²Credits will not count toward requirements for a Bachelor of Management degree in the Faculty of Management at UBC Okanagan. ³WRDS 150 will fulfill the English requirement for the Faculty of Management at UBC Okanagan. A minimum grade of 60% is required for WRDS 150.</p> <p>Students in the 11-month International Program...</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,943,0</p> <p>Present Calendar Entry:</p> <p>Program Requirements ... UBC Vantage College International Program Streams</p> <p>Arts Stream ... Science Stream ...</p> <p>Students in the 11-month International Program...</p> <p>Type of Actions: Update the calendar entry for UBC International Program requirements, specifically by listing courses included in the Management stream of the</p>



	<p>UBC Vantage College Program.</p> <p>Rationale for Proposed Change: The International Program is a new UBC program designed to prepare students for entry into second year in UBC faculties. Students enrolled in the International Program take existing courses offered by the Faculties of Arts, Applied Sciences, Education, Management, Science and/or VANT courses designed to supplement and enhance the learning experience. Students in the Management stream will complete winter session courses at UBC Vancouver and summer session courses at UBC Okanagan. Upon successful completion of this stream students will then transition into their second year of studies in the Faculty of Management at UBC Okanagan. The Vantage Management stream is built from existing first-year UBC courses offered by the Faculties of Arts and Education at UBC Vancouver and by the Faculty of Management at UBC Okanagan. No new courses are being proposed as part of this stream. Specific course offerings that make up the International Program streams are listed here. Project and language and literacy courses that introduce new content (LLED 200, VANT 148, VANT 149) will count towards degree requirements in the Faculty of Management degree requirements at UBC Okanagan but support courses in the program will not (VANT 140).</p> <p>See also supporting document.</p>
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UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

<p>Faculty: UBC Vantage College Faculty Approval Date: Feb 23th, 2015 Effective Date for Change: 15S</p>	<p>Date: Feb 23, 2015 Contact Person: Dr. Joanne Fox Phone: 604-827-0339 Email: joanne.fox@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>Admission ... All applicants to UBC Vantage College must demonstrate:</p> <ul style="list-style-type: none"> a minimum level of English proficiency as indicated in the English Language requirement section. a suitable level of academic proficiency in the senior level of secondary school study in their domestic curriculum equivalent to having at least a 70% average in the BC/Yukon Secondary School curriculum. <p>Further, students applying to the Management stream in the International Program must have completed:</p> <ul style="list-style-type: none"> senior-level Mathematics (Pre-Calculus) <p>Further, students applying to the science stream in the International Program must have completed...</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,939,0</p> <p>Present Calendar Entry:</p> <p>Admission ... All applicants to UBC Vantage College must demonstrate:</p> <ul style="list-style-type: none"> a minimum level of English proficiency as indicated in the English Language requirement section. a suitable level of academic proficiency in the senior level of secondary school study in their domestic curriculum equivalent to having at least a 70% average in the BC/Yukon Secondary School curriculum. <p>Further, students applying to the science stream in the International Program must have completed...</p> <p>Type of Actions: Update information in the Vantage College Admissions Calendar entry to include admissions requirements for the Management stream.</p> <p>Rationale for Proposed Change: This update outlines that the admissions requirements for the Management stream in the International Program are the same as the program specific admissions for the Management program. See: http://you.ubc.ca/admissions/international-highschools/</p>

Faculty: UBC Vantage College Faculty Approval Date: March 7, 2015 Effective Session (W or S): S Effective Academic Year: 2015	Date: March 7, 2015 Contact Person: Joanne Fox Phone: 7-0339 Email: joanne.fox@ubc.ca
Proposed Calendar Entry: Transition into UBC Degree Programs ... Arts Stream ... Students with fewer than 27 credits successfully completed in the UBC Vantage College program or who achieve an average lower than 60% will be reviewed on a case-by-case basis, where there is evidence of academic promise for study in Arts. Management Stream UBC Vantage College students in the Management stream who pass all courses with an average of at least 60% and who achieve at least 60% in WRDS 150 will be eligible for year two of the B.Mgt degree program offered at UBC Okanagan. Students who do not successfully complete the full UBC Vantage College program or who do not meet progression requirements for year 1 will be reviewed on a case-by-case basis, where there is evidence of academic promise for study in Management. Science Stream ...	URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,945,0 Present Calendar Entry: Transition into UBC Degree Programs ... Arts Stream ... Students with fewer than 27 credits successfully completed in the UBC Vantage College program or who achieve an average lower than 60% will be reviewed on a case-by-case basis, where there is evidence of academic promise for study in Arts. Science Stream ... Type of Action:



Add information to the Calendar entry to include details on how students in the UBC Vantage College Program transition into degree programs for the Management stream.

Rationale for Proposed Change:

UBC Vantage College offers to International Students an intensive 11-month program with English language instruction integrated across all aspects of the program including English language-intensive instruction into all disciplinary courses, content, tutorials, literacy courses, and writing courses and research / communication courses. Students in the Management stream will complete winter session courses at UBC Vancouver and summer session courses at UBC Okanagan. Upon successful completion of this stream students will then transition into their second year of studies in the Faculty of Management at UBC Okanagan. The Vantage Management stream is built from existing first-year UBC courses offered by the Faculties of Arts and Education at UBC Vancouver and by the Faculty of Management at UBC Okanagan. These courses will be offered in the Vantage College program with sections restricted to Vantage College students. In order to transition into degree programs, students must adhere to the same academic standards as direct entry students in the 'direct-entry' sections of these courses. The requirements for the UBC Vantage College program are set to match the standards for internal transfers into UBC degrees, including the Faculty of Management B.Mgt. Undergraduate Program at UBC Okanagan.



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

Faculty: UBC Vantage College Faculty Approval Date: March 12 th , 2015 Effective Session (W or S): S Effective Academic Year: 2015	Date: March 12 th , 2015 Contact Person: Dr. Joanne Fox Phone: 604-827-0339 Email: joanne.fox@ubc.ca
Proposed Calendar Entry: MGMT: Management	Present Calendar Entry: N/A Type of Action: Create new course code. Rationale for Proposed Change: There are two MGMT Management courses that are listed in the program requirements for the Vantage Management stream. In order to provide students with a complete list of calendar entries, the MGMT course code needs to be created.
Proposed Calendar Entry: MGMT 100 (3) Introduction to Canadian Business Introduction to the Faculty of Management and functional areas of business including accounting, economics, finance, marketing, organizational behaviour, business policy, and entrepreneurship. Steps needed to build a successful local, national, and international competitive business. Ethical and policy decisions faced by business and government. [3-0-0]	Present Calendar Entry: N/A Type of Action: Create new course. Rationale for Proposed Change: These courses are part of the Vantage Management stream. They will continue to be offered and taught on the UBCO campus. However, in order to provide students with a complete list of calendar entries for the courses listed in the program requirements of the Vantage Management stream, we need to create calendar entries in the UBC Vancouver calendar. X Not available for Cr/D/F grading Rationale for not being available for Cr/D/F: This option does not exist on the UBC Okanagan campus thus in an effort to remain consistent these courses are also not eligible.
Proposed Calendar Entry: MGMT 200 (3) Personal and Corporate Social Responsibility Increase awareness of a wide range of	Present Calendar Entry: N/A Type of Action: Create new course. Rationale for Proposed Change: These courses are part of the Vantage



ethical challenges, test the strengths of personal moral beliefs and ethical arguments, and utilize critical thinking skills in making ethical decisions appropriate for corporate social responsibility practices. [3-0-0]

Management stream. They will be continue to be offered and taught on the UBCO campus. However, in order to provide students with a complete list of calendar entries for the courses listed in the program requirements of the Vantage Management stream, we need to create calendar entries in the UBC Vancouver calendar.

X Not available for Cr/D/F grading

Rationale for not being available for Cr/D/F: This option does not exist on the UBC Okanagan campus thus in an effort to remain consistent these courses are also not eligible.



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Admissions Proposal Form Okanagan Campus

Faculty/School: Faculty of Management Dept./Unit: Faculty/School Approval Date: Feb 18, 2015 Effective Session: 2015W T1	Date: Feb 11, 2015 Contact Person: Dr. Barb Marcolin Phone: 250.807.9637 Email: barb.marcolin@ubc.ca
Type of Action: New Admissions requirements – Program level	
Rationale: Add information to the Calendar entry to include details on admissions, year 1 and progression requirements for UBC Vantage College Faculty of Management Program students. The UBC Vantage College offers to International Students an intensive 11-month program with English language instruction integrated across all aspects of the program including English language-intensive instruction into all disciplinary courses, content, tutorials, literacy courses, and writing courses and research / communication courses. Existing first-year UBC courses offered by the Faculties are offered in the Vantage College program with sections restricted to Vantage College students. In order to transition into degree programs, students must adhere to the same academic standards as direct entry students in the ‘direct-entry’ sections of these courses. The requirements for the UBC Vantage College program are set to match the standards for internal transfers into UBC degrees, including the Faculty of Management B.Mgt. Undergraduate Program.	



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<p>Proposed Academic Calendar Entry:</p> <p>Admission Requirements</p> <p>...</p> <p>[13353] Applicants from a College or University</p> <p>...</p> <p>[Article ID] Transition from UBC Vantage College</p> <p>UBC Vantage College students in the Management stream who pass all courses with an average of at least 60% and who achieve at least 60% in WRDS 150 will be eligible for year two of the B.Mgt. degree program.</p> <p>Students who do not successfully complete the full UBC Vantage College Management stream or who achieve an average lower than 60% in the full program can apply to be reviewed on a case-by-case basis for evidence of academic promise for continued study in Management at UBC.</p> <p>[13358] Entry into Third Year</p> <p>...</p>	<p>Draft Academic Calendar URL:</p> <p>http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,884,1109</p> <p>Present Academic Calendar Entry:</p> <p>Admission Requirements</p> <p>...</p> <p>[13353] Applicants from a College or University</p> <p>...</p> <p>[13358] Entry into Third Year</p> <p>...</p> <p>Rationale: Use the existing FOM Year 1 progression calculation which currently does not include Vantage College courses. This makes this score comparable to all other FOM admission intakes. The at least 60% in WRDS 150, the 50% in each course and the 60% average across all courses ensure that students meet our minimum levels and minimal English language requirements.</p> <p>Rationale:</p> <p>Consistency with other faculties and departments and to ensure that due consideration is given to the difficult transition for Vantage College students, some consideration may be given to changes in student performance over time.</p>
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THE UNIVERSITY OF BRITISH COLUMBIA

Office of the Senate
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Vancouver BC V6T 1Z1

Phone 604 822 5239
Fax 604 822 5945
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15 April 2015

To: Vancouver Senate

From: Senate Curriculum Committee

Re: April Curriculum Proposals (approval)

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

The following is recommended to Senate:

Motion: *“That the new and revised courses and revised programs brought forward by the faculties of Applied Science, Arts, Forestry, Graduate and Postdoctoral Studies (Land and Food Systems, and Science), Land and Food Systems, and Science be approved.”*

Respectfully submitted,

Mrs. Carol Jaeger, Vice-Chair

Senate Curriculum Committee



FACULTY OF APPLIED SCIENCE

Revised program

Nursing>Bachelor of Science in Nursing>Degree Requirements>Interprofessional Education

FACULTY OF ARTS

New courses

GERM 409 (3) Special Topics in German Cinema (in English); RUSS 112 (3) Russian for Singers; SCAN 337 (3) Scandinavian Cinema (in English); SCAN 415 (3) The World of the Sagas (in English); ENGL 480 (3-12)d Asian Canadian and/or Asian Transnational Studies; FHS 334 (3) The Afterlife of the Text: Rewritings and Adaptations; PORT 110 (3) Elementary Portuguese for Romance Language Speakers; PORT 210 (3) Intermediate Portuguese for Romance Language Speakers; PORT 308 (3) Portuguese for Business (in Portuguese); SPAN 303 (3) Conversational Spanish for Advanced Speakers; SPAN 309 (3) Business Spanish of International Trade in the Hispanic World (in Spanish); SPAN 411 (3) Introduction to Hispanic Linguistics

FACULTY OF FORESTRY

New courses

CONS 127 (3) Observing the Earth from Space; FOPR 264 (4) Geomatics, Forest Access and Transportation

FACULTY OF GRADUATE AND POSTDOCTORAL STUDIES

New courses

Land and Food Systems

LFS 530 (3/6)c Directed Studies; PLNT 542 (3) Grapevine and Berry Crop Biology

Science

PHYS 565 (3) Applications of Radioisotopes in Science and in Medicine

FACULTY OF LAND AND FOOD SYSTEMS

New courses

APBI 413 (3) Stress and Coping in Animals; APBI 416 (3) Animal Welfare and Conservation Biology; APBI 442 (3) Grapevine and Berry Crop Biology

FACULTY OF SCIENCE

Revised program and new and revised courses

Science>Bachelor of Science>Chemistry>Combined Major Specializations>Chemical Biology; BIOL 233 (3) Genetics for Life; BIOL 431 (3) Evolutionary Cell Biology; BIOL 432 (3) Research Strategies and Techniques in Cell Biology; PHYS 117 (3) Dynamics and Waves; PHYS 118 (3) Electricity, Light and Radiation; PHYS 119 (1) Experimental Physics Lab



UBC Curriculum Proposal Form Change to Course or Program

Category: 1

<p>Faculty: Applied Science Department: School of Nursing Faculty Approval Date: March 2, 2015 Effective Session: Winter Effective Academic Year: 2015/2016</p>	<p>Date: March 2, 2015 Contact Person: Kathy O’Flynn-Magee Phone: 604-822-7472 Email: kathy.oflynnmagee@nursing.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>Degree Requirements English Requirements ... Third and Fourth Year Courses ... Clinical Nursing Focus ... Credit is given for one of NURS 420, 422, 423, 424, or 425.</p> <p>Interprofessional Education</p> <p>In order to graduate and to meet the College of Registered Nurses of British Columbia (CRNBC) requirements for Interprofessional Practice competencies, and as required by BSN program approval from the regulatory body, students must complete the interprofessional education requirements of the program: students are required to participate in a minimum series of learning activities determined by the School of Nursing and offered through the UBC Interprofessional (IPE) Passport system. This system offers students learning experiences that include a combination of “exposure” and “immersion” learning activities that are recorded by the students and tracked online by the UBC IPE Passport system.</p>	<p>URL: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,211,386,381 Present Calendar Entry:</p> <p>Degree Requirements English Requirements ... Third and Fourth Year Courses ... Clinical Nursing Focus ... Credit is given for one of NURS 420, 422, 423, 424, or 425.</p> <p>Type of Action: Add interprofessional education requirement to the ‘BSN Degree Requirements.’</p> <p>Rationale for Proposed Change: The School of Nursing Undergraduate Program and Policy Committee approved the adoption of the Interprofessional Education Passport point system into our curriculum as a pilot in September 2012. Based on the feedback and informal data collected about the learning and experience, the curriculum committee moved to continue the mandatory interprofessional education requirement for the 2013 and 2014 academic calendar years. The purpose of this proposed change is to formalize a process already in effect to reflect the current practice and to ensure continued interprofessional education in meeting the professional practice requirements.</p>

CENES – Category 1

Faculty: Arts Department: CENES Faculty Approval Date: February 12, 2015 Effective Session: W Effective Academic Year: 2015/1016	Date: Nov. 28, 2014 Contact Person: Ilinca Iurascu, Chair Curriculum Committee Phone: 604 822 6403 Email: iurascu@mail.ubc.ca
Proposed Calendar Entry: GERM 409 (3) Special Topics in German Cinema (in English) Themes, traditions and techniques specific to German cinema.	Present Calendar Entry: n/a Type of Action: Create new course Rationale for Proposed Change: Increased student demand for, and popularity of, German cultural studies courses taught in English; student and faculty interest in German cinema courses; currently limited to one course (GERM 304).
Proposed Calendar Entry: RUSS 112 (3) Russian for Singers Study of Russian language and culture for opera students.	Present Calendar Entry: n/a Type of Action: Create new course Rationale for Proposed Change: Demand among opera students for the study of Russian language, history and culture, with specific focus on phonetics and translation. Partnership between CENES and School of Music in light of student and faculty interest.
Proposed Calendar Entry: SCAN 337 (3) Scandinavian Cinema (in English) An introduction to the cinemas of the Scandinavian region.	Present Calendar Entry: n/a Type of Action: Create new course Rationale for Proposed Change: Complementing offerings within Scandinavian Studies and CENES. Augmenting choices in completion of the Scandinavian Minor, in light of increased student demand and faculty interest.
Proposed Calendar Entry: SCAN 415 (3) The World of the Sagas (in English) Scandinavian contributions to medieval and early modern world literature, culture and history.	Present Calendar Entry: n/a Type of Action: Create new course Rationale for Proposed Change: Complementing offerings within Scandinavian Studies and CENES. Augmenting choices in completion of the Scandinavian Minor, in light of increased student demand and faculty interest.

ENGL – Category 1

Faculty: Arts Department: ENGL Faculty Approval Date: February 12, 2015 Effective Session (W or S): W Effective Academic Year: 2015	Date: January 24, 2015 Contact Person: Chris Lee Phone: 604-822-2943 Email: chris.lee@ubc.ca
Proposed Calendar Entry: ENGL 480 (3-12) d Asian Canadian and/or Asian Transnational Studies	Present Calendar Entry: N/A Type of Action: Create new course Rationale for Proposed Change:

<p>Prerequisite: 3rd year standing and 6 credits of first-year English, or Arts One, or 6 credits of ASTU 100 from CAP or 3 credits of first-year English and 3 credits of WRDS 150.</p>	<p>This new course number will contribute an identifiable Asian Canadian and/or Asian Transnational Studies course in this important and growing area of student interest. It will enable courses already taught in this area under different course numbers to be readily identifiable for English Majors, Minors, and Honours students, as well as students in other programs such as the Asian Canadian and Asian Migration Studies minor.</p>
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FHIS – Category 1

<p>Faculty: Arts Department: FHIS Faculty Approval Date: February 12, 2015 Effective Session 2015 W Term 1</p>	<p>Date: December 3, 2014 Contact Person: Michael O'Hagan Phone: 2-4558 Email: michael.ohagan@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>FHIS 334 (3): The Afterlife of the Text: Rewritings and Adaptations</p> <p>How stories travel across media and across national and linguistic boundaries in the Romance-speaking world. The dialogue between different versions and inter-media translations. Questions of authorship and reception.</p>	<p>Present Calendar Entry: None</p> <p>Type of Action: Create a New Course</p> <p>Rationale The proposed course on re-writings and adaptations will increase the number of FHIS courses that can be taught across language units and will foster collaboration and exchange among students of one or more of the Romance languages that we teach. At the same time, it will broaden that pool of students by speaking to others whose interest in French, Hispanic or Italian literature and culture may be secondary to an interest in fields such as intermediality, music, the theatre or film studies. Within the FHIS department, the course will offer our own students the opportunity to meet and collaborate across language programs; and in a broader context it will foster contact and collaboration among students whose interests in a variety of cultural media include the Romance literatures. The course also reflects the increasing interest of current scholarship and curriculum in issues of reception. Since it involves a reflection on how cultural specificities affect the way in which we read and re-write stories, it will speak to UBC students, who often have international backgrounds. Lastly, the course is in tune with UBC's commitment to teach modern languages and address students' needs in a global age.</p>
<p>Proposed Calendar Entry:</p> <p>PORT 110 (3) Elementary Portuguese for Romance Language Speakers.</p> <p>A single-term alternative to PORT 101 and 102 for students with heritage Portuguese or another Romance language.</p> <p>Credit will be granted for only one of PORT 110 or PORT 101 and PORT 102.</p>	<p>Present Calendar Entry: None</p> <p>Type of Action: Create a new course</p> <p>Rationale: Through the generosity of the Brazilian government, the Department of French, Hispanic and Italian Studies now has the teaching resources to respond to the longstanding desire of students with a heritage knowledge of Portuguese itself or with a strong command of other Romance</p>

	<p>languages for courses that would permit them to acquire quickly a useful communicative command of Portuguese for use in study and research while still at UBC, for professional use after graduation or merely to strengthen or to expand their own linguistic and cultural heritage.</p> <p>Building on its students' existing language skills and cultural knowledge, PORT 110 will begin this accelerated education with a term devoted to intensive, communicative education in the Portuguese language and in the life and culture of the major places where it is spoken, including Brazil, Portugal, Angola, Mozambique and Macau.</p> <p>It will thereby help the students to reach their own immediate goals. It will prepare those who are so inclined for further study in Portuguese at the upper level. And it will, even if only modestly, enhance the profile of Portuguese and its cultures on the UBC campus.</p>
<p>Proposed Calendar Entry:</p> <p>PORT 210 (3) Intermediate Portuguese for Romance Language Speakers.</p> <p>A single-term alternative to PORT 201 and 202 for students with heritage Portuguese or another Romance language.</p> <p>Credit will be granted for only one of PORT 210, PORT 201 and PORT 202.</p> <p>Prerequisite: PORT 110.</p> <p>Heritage speakers who feel ready to enter PORT 210 directly should consult the undergraduate adviser in Portuguese.</p>	<p>Present Calendar Entry: None</p> <p>Type of Action: Create a new course</p> <p>Rationale:</p> <p>Through the generosity of the Brazilian government the department of French, Hispanic and Italian Studies now has the teaching resources to respond to the longstanding desire of students with a heritage knowledge of Portuguese itself or with a strong command of other Romance languages for courses, beginning with PORT 110, that would permit them to acquire quickly a useful communicative command of Portuguese, and we have proposed a beginners' course, PORT 110, for this purpose.</p> <p>Even for well-prepared students, however, a single term of language study will not make the language a useful tool for serious academic or professional work. Building on the foundation provided by PORT 110, therefore, PORT 210 will continue the accelerated education of its students in Portuguese and in the culture of the places where it is spoken, with an emphasis on more nuanced communication in both speech and writing, in preparation for their senior academic work and for their lives and careers beyond graduation.</p> <p>In addition to continuing to help students to reach their own goals, it will further prepare those so inclined for more advanced study in Portuguese. And like PORT 110 it will enhance the profile of Portuguese and its cultures on the UBC campus.</p>
Proposed Calendar Entry:	Present Calendar Entry: None

<p>PORT 308 (3) Portuguese for Business (in Portuguese)</p> <p>Communicative Portuguese for students studying Commerce or otherwise preparing for a career in business.</p> <p>Prerequisite: PORT 202 or PORT 210.</p>	<p>Type of Action: Create a new course</p> <p>Rationale: The appointment of an additional lecturer in Portuguese, made possible by the generosity of the Brazilian government, will now make it possible for us to offer intermediate-level Portuguese regularly in two formats, for heritage and for non-heritage speakers. Students completing this level of language work are ready for advanced study not only in general language and literature, but also in practical communication for special situations. Given Canada's growing commercial ties with Europe and, in Latin America, with Brazil, and given the interest expressed by students who already have an appropriate background in Portuguese, language for business is clearly the most promising of these specialized fields of language study.</p> <p>To permit students in the business field of study who have a professional interest in the Portuguese language or in Portuguese-speaking cultures (such as Brazil, Portugal, Angola, Mozambique, Macau, etc.) to learn specific cultural practices related to their field.</p> <p>To increase interest in Portuguese language and in Portuguese-related cultures at UBC, and thereby to attract more students to courses pertaining to those cultures.</p>
<p>Proposed Calendar Entry:</p> <p>SPAN 303 (3) Conversational Spanish for Advanced Speakers</p> <p>Conversational Spanish, based on topics from current electronic media sources. Recommended for upper-level students and heritage speakers of Spanish. For students at Level C1 (CEFR). For further information on CEFR levels see http://www.fhis.ubc.ca/undergraduate/spanish/advising/deciding-what-spanish-course-to-take.html.</p>	<p>Present Calendar Entry: None</p> <p>Type of Action: Create a New Course</p> <p>Rationale Although upper-level language courses are usually conducted in the target language and thereby give students significant opportunities to improve their listening and speaking skills, language departments, including FHIS, also make available at the upper level dedicated courses in oral communication that offer more intensive training in these specific skills. In part, therefore, SPAN 303 simply fills a gap in our current course offerings in Spanish.</p> <p>There is also a particular value in the early 21st century to a conversation course linked to types of written communication which are themselves informed by spoken Spanish, which are used increasingly by native speakers, but which figure less prominently in our other courses.</p>
<p>Proposed Calendar Entry:</p> <p>SPAN 309 (3) Business Spanish of International Trade in the Hispanic World (in Spanish)</p>	<p>Present Calendar Entry: None</p> <p>Type of Action: Create a New Course</p> <p>Rationale:</p>

<p>The language and the legal, logistic, and administrative procedures of international trade. For students at level B2 (CEFR). For further information on CEFR levels see http://www.fhis.ubc.ca/undergraduate/spanish/advising/deciding-what-spanish-course-to-take.html.</p> <p>Not available for credit toward a Major or Minor in Spanish.</p>	<p>Latin American economies occupy and have long occupied an important place in international trade, involving a variety of manufactured products, raw materials and services that is carried on worldwide using the English and Spanish languages.</p> <p>SPAN 309 represents a part of the Spanish programme's contribution to the newly created UBC Business Languages platform, which includes all the language programs that offer business courses on campus. With the exception of Spanish, the platform's programs have two business-language courses that function as independent modules. The addition of SPAN 309 to the existing SPAN 308 (Spanish for Business) will put Spanish on a par with them.</p>
<p>Proposed Calendar Entry:</p> <p>SPAN 411 (3) Introduction to Hispanic Linguistics</p> <p>Spanish as a linguistic system from its origins to the present: structure of words and sentences, dialectal varieties. For native and heritage speakers or students at Level C1 (CEFR).</p> <p>Prerequisite: SPAN 302</p>	<p>Present Calendar Entry: None</p> <p>Type of Action: Create a New Course</p> <p>Rationale</p> <p>A course informally styled <i>Introducción a la Lingüística Hispánica</i> [Introduction to Hispanic Linguistics]; has been taught for several years as a variant of SPAN 402, Advanced Spanish III.</p> <p>This linguistics course has consistently proven popular among students, with an average enrolment of 20 students per term, and its popularity has been increased by the research component added to its syllabus in 2013W.</p> <p>The quality of the research projects has surpassed the expectations of the instructor and of the department, which accepted the three best research papers from the 2013 fall class for presentation to the Spanish Graduate Seminar.</p> <p>Having established a reputation among the teachers and students of Spanish and having become a plausible candidate for classification as research intensive, this course is no longer adequately represented by the general description of <i>Advanced Spanish</i>. It is proposed, therefore, that it be offered under its own permanent code and title.</p>



UBC Curriculum Proposal Form Change to Course or Program

Category: 1

Faculty: Forestry Department: Forest Resources Management Faculty Approval Date: November 6 2014 Effective Session (W or S): W Effective Academic Year: 2015	Date: October 29, 2014 Contact Persons: Dr Nicholas Coops Phone: 604-822-6452 Email: Nicholas.coops@ubc.ca
Proposed Calendar Entry: CONS 127 (3) Observing the Earth from Space Exploration of innovative Earth observation and other geospatial technologies and how they allow us to better understand the changing Earth. [3-0-0].	Present Calendar Entry: N/A Type of Action: Create new course Rationale: The adventures of Canadian astronaut, Chris Hadfield, have inspired a new generation of “space wonderers”; students interested and inspired by viewing the Earth from space, and what science and technological advances have come from humans moving into space. This course examines how innovative Earth observation and other geospatial technologies allows us to better understand the changing Earth, including how humans are impacting the planet and interacting with the environment and each other. The course will cover a range of space-based technologies such as the use of remote sensing, global positioning systems, location-based services, virtual globes (like GOOGLE EARTH), web-based mapping and big-data geospatial analysis viewed through a Canadian environmental change lens. <input type="checkbox"/> Not available for Cr/D/F grading



Faculty: Forestry Department: Faculty Approval Date: November 6, 2014 Effective Session (W or S): W Effective Academic Year: 2015	Date: October 30, 2014 Contact Person: Kevin Lyons Phone: 2-3559 Email: kevin.lyons@ubc.ca
Proposed Calendar Entry: FOPR 264 (4) Geomatics, Forest Access and Transportation Geomatics, the physical attributes of forest access and transportation and how they best integrate with the objectives of resource sustainability. [2-4-0]	Present Calendar Entry: N/A Type of Action: Create new course. (Merger of FOPR 261 and 262) Rationale for Proposed Change: Many of the surveying exercises formerly covered in FOPR 261 will be incorporated into the expanded lab section of FOPR 264 and some of the basic geomatics theory will be covered in the lectures. The lecture and lab content of FOPR 262 will be rationalized and reduced to provide space for this content. The proposed change will result in a net decrease of 1 credit to students' programs within the BSF degree, allow students one additional week of summer work, and make it considerably easier for transferring international students to access the course. (FOPR 261 is an extra-session course offered during the week prior to the beginning of the winter session in September and is a prerequisite for FOPR 262.) The distance education versions of FOPR 261 and 262 will continue to be offered, at least for the short-term. X Not available for Cr/D/F grading

Note: No consultations were conducted since this "new" course represents a merger of two existing courses. It is only included as a Category 1 change for record keeping purposes.

UBC Curriculum Proposal Form Change to Course or Program

Category: 1

Faculty: Land and Food Systems Department: N/A Faculty Approval Date: Feb 19, 2015 Effective Session: W Year for Change: 2015	Date: November 14, 2014 Contact Person: Carol McAusland Phone: 604-822-3350 Email: carol.mcausland@ubc.ca
Proposed Calendar Entry: LFS 530 (3/6) c Directed Studies	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name&code=LFS Present Calendar Entry: N/A Type of Action: Create New Course Rationale: This course will allow graduate students in the Integrated Studies in Land and Food Systems (ISLFS) program to engage in independent learning opportunities under the supervision of a faculty member capable of guiding their work in an area of special interest. The directed study should be an extension into a greater depth of a topic covered in one or more regular courses or in areas not covered in existing courses. Providing a guided independent study supports UBC and Land and Food Systems goals to provide graduate students with a variety of student-centered, enriched educational opportunities. Similar courses are available within specific disciplinary graduate programs in LFS (e.g., AANB 530; FOOD 530; HUNU 547; PLNT 530; SOIL 530), but there is currently no appropriate course for students pursuing an interdisciplinary directed studies project appropriate for the ISLFS program.

UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

Faculty: Land and Food Systems Department: Wine Research Centre Faculty Approval Date: Feb 19, 2015 Effective Session (W or S): W Effective Academic Year: 2015	Date: January 28, 2015 Contact Person: Simone Diego Castellarin Phone: 7 2667 Email: simone.castellarin@ubc.ca
Proposed Calendar Entry: PLNT 542 (3) Grapevine and Berry Crop Biology Credit will be granted for only one of PLNT 542 or APBI 442.	URL: http://www.calendar.ubc.ca/vancouver/courses.cfm?page=name&code=PLNT Present Calendar Entry: N/A Type of Action: Create New Course Rationale for Proposed Change: The proposed course will be taught with the concurrently proposed APBI 442 Grapevine and berry crop biology. PLNT 542 will provide graduate students in Plant Science and related programs with an in-depth understanding of how principles of plant genetics, genomics, biology, and physiology are related to the production of grapes and other major berry crops. PLNT 542 students will complete all of the requirements of APBI 442, but will also complete a review project, which includes a written critical assessment of a topic in grapevine physiology, viticulture, or berry biology, and a presentation of the findings of the research to classmates.



UBC Curriculum Proposal Form Change to Course or Program

Category: 1

<p>Faculty: Science Department: Physics Faculty Approval Date: March 3, 2015 Effective Session (W or S): S1 Effective Academic Year: 2015</p>	<p>Date: March 3, 2015 Contact Person: Dr. Norm Hutchinson Phone: 2-8818 Email: norm@cs.ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>PHYS 565 (3) Applications of Radioisotopes in Science and in Medicine</p> <p>Use of radioisotopes in nuclear medicine, materials science, environmental science, and nuclear physics in combination with the associated production, processing and detection technologies.</p>	<p>Present Calendar Entry: N/A Type of Action: Create new course Rationale for Proposed Change: There is a growing importance of applications of radioisotopes in a broad range of fields from environmental science, preclinical medical research, and characterization of new materials, to investigations of the foundations of the universe. While their medical use is widely known, isotopes enjoy growing importance in environmental studies to trace flow of nutrients or pollutants in the environment.</p> <p>This course will provide graduate students with an individually tailored interdisciplinary program complementing their respective sub-field lectures with more in-depth knowledge on the production, processing, detection, and application of radioisotopes.</p> <p>This course is being created as part of the CREATE-IsoSiM initiative, which aims to provide a broad graduate experience for students in areas of production, processing, detection, and applications of radioisotopes. There is currently no graduate level course on radioisotopes and their applications.</p> <p>This course will be required for all graduate students in the CREATE-IsoSiM program. A maximum of 10 students are expected per year. A handful of additional UBC students might consider this course as an elective.</p>



UBC Curriculum Proposal Form Change to Course or Program

Category 1

Faculty: Land and Food Systems Department: Applied Biology Faculty Approval Date: Feb 19, 2015 Effective Session (W or S): W Effective Academic Year: 2015	Date: January 30, 2015 Contact Person: Gwen Chapman Phone: 2-6874 Email: gwen.chapman@ubc.ca
Proposed Calendar Entry: APBI 413 (3) Stress and Coping in Animals Understanding, assessing and managing stress in farm, companion, captive wildlife, and research animals: Sources of stress; behavioural, emotional, cognitive and physiological responses; effects on growth, reproduction, health. Pre-requisite: 3rd year standing or higher. APBI 315 and courses in animal physiology and animal behavior recommended.	URL: Present Calendar Entry: Type of Action: Create new course. Rationale for Proposed Change: This course will be an addition to course offerings for the growing Applied Animal Biology major in the APBI program. This major has a strong focus on animal welfare, but to date has not had a course that looks at the biology of stress. This course will be especially valuable to students interested in pursuing careers in veterinary medicine, or other careers dealing with companion, farm, zoo or research animals. The course was piloted in the 2014W, Term 2, under the Special Topics course number (APBI 490).
Faculty: Land and Food Systems Department: Applied Biology Faculty Approval Date: Feb 19, 2015 Effective Session (W or S): W Effective Academic Year: 2015	Date: January 20, 2015 Contact Person: Kristen Walker Phone: Email: walkerkr@mail.ubc.ca
Proposed Calendar Entry: APBI 416 (3) Animal Welfare and Conservation Biology Evaluation of humane treatment of individual animals living in the wild and managed within conservation biology. Assessment of attitudes and viewpoints of the role of animal welfare in	URL: Present Calendar Entry: Type of Action: Create new course. Rationale for Proposed Change: This course will be an addition to course offerings for the growing Applied Animal Biology major in the APBI program. This major has a strong focus on animal welfare, but to date has not had a course that looks

<p>conservation biology.</p> <p>Pre-requisite: 3rd year standing or higher.</p> <p>APBI 315 and BIOL 416 or CONS 220/330 recommended.</p>	<p>at animal welfare from the perspective of conservation biology. The course was successfully offered for the first time as a pilot in the 2014W, Term 1, under the Special Topics course number (APBI 490).</p>
<p>Faculty: Land and Food Systems Department: Wine Research Centre Faculty Approval Date: Feb 19, 2015 Effective Session (W or S): W Effective Academic Year: 2015</p>	<p>Date: January 28, 2015 Contact Person: Simone Diego Castellarin Phone: 7 2667 Email: simone.castellarin@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p>APBI 442 (3) Grapevine and Berry Crop Biology</p> <p>Grapevine genetics, morphology, and physiology and major biological features of other important berry crops for British Columbia such as blueberry, cranberry, and raspberry. Credit will be granted for only one of APBI 442 or PLNT 542.</p> <p>Prerequisites: BIOL/APBI 210, BIOL 234 Recommended: BIOL 260</p>	<p>URL:</p> <p>Present Calendar Entry:</p> <p>Type of Action: Create new course</p> <p>Rationale for Proposed Change: The proposed course will add to the suite of wine related courses offered by Land and Food Systems, and be of interest to LFS and BIOL students who wish to pursue careers as viticulturists, winemakers, or berry producers, as well as to LFS, BIOL, and FRST students who have an interest in learning how general principles of plant genetics, genomics, biology, and physiology learned in previous courses are related to the production of grapes and other major berry crops.</p>

Contact: Dr. Norm Hutchinson
Phone: 822-8818

Faculty Approval Date: March 3, 2015
Email: norm@cs.ubc.ca

CHEMISTRY

Effective Date for Change: 15S

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,420>

Proposed Calendar Entry:

...
Honours (0213): Chemistry (CHEM)
...

Present Calendar Entry:

...
Honours (0213): Chemistry (CHEM)
...

Combined Major Specializations

**Combined Major (XXXX): Chemical Biology
(CHEM, BIOL)**

First Year

Communication Requirement ¹	3
BIOL 112 ²	3
BIOL 121 ²	3
BIOL 140 ²	2
CHEM 121 (or 111)	4
CHEM 123 (or 113)	4
MATH 100 or 102 or 104 ³	3
MATH 101 or 103 or 105 ⁴	3
PHYS 101 ⁵	3
Electives ⁶	2
Total Credits	30

Second Year

BIOL 200	3
BIOL 201 ⁷	3
BIOL 234 (or 233)	3
One of BIOL 203, 204, 205, 209, 210	4
CHEM 203 ⁸	4
CHEM 205 ⁹	3
CHEM 211	4
CHEM 213, 245	4
Electives ⁶	2
Total Credits	30

Third Year

BIOL 230 or 260	3
BIOL 300 ¹⁰	3
Two of BIOL 337, 340, 341, 351, 352 ¹¹	4
CHEM 208	3

CHEM 300¹	3
CHEM 313	3
CHEM 315, 335¹²	2
One of CHEM 218, 305, 311, 327, 330	3
Electives⁶	6
Total Credits	30

Fourth Year

BIOL 336	3
CHEM 445¹³	3
CHEM and Life Science Electives¹⁴	12
Electives⁶	12
Total Credits	30
Total Credits for Degree	120

¹ Of the 6 credits required to satisfy the Communication Requirement, 3 credits are specified in third year (CHEM 300). The remaining 3 credits must be chosen from the list of acceptable courses, see Communication Requirement [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1463>]. ENGL credits beyond those needed to satisfy the Communication Requirement may be applied towards the Faculty of Science Arts Requirement [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1464#18441>].

² Students without Biology 11 or Biology 12 must take BIOL 111 before taking BIOL 112, 121 or 140.

³ MATH 180 or 184 or 120 may substitute for any of the specified differential calculus courses listed by decreasing the electives by 1 credit. MATH 110 may substitute for any of the specified differential calculus courses listed by decreasing the electives by 3 credits.

⁴ MATH 121 may substitute for any of the specified integral calculus courses listed by decreasing the electives by 1 credit.

⁵ PHYS 107 or 117 may substitute for PHYS 101. Students without Physics 12 must take PHYS 100 before taking other 100-level PHYS

courses.

⁶ Electives must be taken to ensure the Faculty of Science Arts Requirement [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1464#18441>] and Upper-level Requirement [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1466#18447>] are met. Elective credits may be redistributed among the years in this specialization, provided the total number remains the same. The year level of an elective does not need to correspond to the year level of the specialization.

⁷ BIOC 202 or BIOC 203 are suitable substitutes for this requirement.

⁸ Students with CHEM 235 and a score of 76% or higher in CHEM 233 may apply for admission to this specialization and will be allowed to use CHEM 233 and 235 in place of CHEM 203.

⁹ CHEM 304 is a suitable substitute for this requirement.

¹⁰ STAT 200 may replace BIOL 300 with permission of a Biology specialization advisor. Students who replace BIOL 300 must complete an additional 3 credits of BIOL numbered higher than 300.

¹¹ BIOL 341 is recommended. BIOL 326, 363, 404, 409, 437, and 444 may also be included in this list of courses. If the credit total of the courses selected for this requirement exceeds 4, the excess may be applied towards BIOL lecture electives (see footnote 14).

¹² CHEM 325 and 345 may be substituted for CHEM 315 and 335 and 2 credits of CHEM 300-level lecture electives.

¹³ With permission, CHEM 449 or 6 credits of CHEM 445 may be substituted for 3 credits of CHEM 445 and 3 credits of 400-level CHEM lecture electives.

¹⁴ Chosen from 300- and 400-level BIOC, BIOL, CAPS, CHEM, MICB, or MRNE

lecture courses, as well as EOSC 470, 474, 475, 478, GEOB 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, and PCTH 305. At least 3 credits must be chosen from BIOL lecture courses and at least 3 credits must be chosen from 400-level CHEM lecture courses. Recommended electives include BIOC 302, 303, 402, 410, BIOL 335, 361, 435, 436, 463, CHEM 411, 413, 435 and MICB 325, 405.

Combined Honours Specializations

Combined Honours in Biochemistry and Chemistry, see Biochemistry. [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,417#5005>]

Combined Honours in Chemical Physics, see Physics. [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,434#5897>]

Combined Honours (3132): Chemical Biology (CHEM, BIOL)

...

Combined Honours (0206): Chemistry and Mathematics (CHEM, MATH)

...

Combined Honours: Chemistry and Another Science Subject

...

Combined Honours (3132): Chemical Biology (CHEM, BIOL)

...

Combined Honours (0206): Chemistry and Mathematics (CHEM, MATH)

...

~~Other Combined Honours Specializations~~

~~Combined Honours in Biochemistry and Chemistry, see Biochemistry. [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,417#5000>]~~

~~Combined Honours in Chemical Physics, see Physics. [Link to <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,434#5854>]~~

Combined Honours: Chemistry and Another Science Subject

...

Action: Directly following the listing for Honours Chemistry, create a subheading “Combined Major Specializations”.

Create a new Combined Major: Chemical Biology

specialization. Assign a specialization code for this new Combined Major. Directly following the Combined Major: Chemical Biology listing create a subheading “Combined Honours Specializations” and move thereafter the entries and associated links for the existing Combined Honours Biochemistry and Chemistry, and Combined Honours Chemical Physics specializations. Delete the subheading “Other Combined Honours Specializations”.

Rationale: *Overview and Justification*

The Chemistry department has recently completed a review of its entire curriculum, including the course listings in specializations. This has resulted in proposals to change the core structure of specializations to better align them with their learning objectives. Chemistry plays a central role in science and is able to make connections with a broad range of disciplines. As such, Combined Honours specializations exist involving Chemistry and each of Biochemistry, Biology, Mathematics, and Physics. However, there are no Combined Major specializations involving Chemistry so Major students do not have access to the same range of specialization diversity as Honours students. At the same time, the number of Major students far exceeds the number of Honours students, so the bulk of the student population is not being well served by the combined specializations available today.

In general, a non-chemistry Major student with an interest in chemistry must undertake a Minor in Chemistry if they wish to pursue this interest. This is problematic because the lower-level prerequisites in Chemistry are extensive so many credits are needed before upper-level courses can be accessed. This is a daunting barrier and also means most students will need to substantially exceed the standard 120 credits in pursuing this Major + Minor combination. A Combined Major specialization naturally provides a way of overcoming such barriers.

This proposal for a Combined Major in Chemical Biology addresses the need of Biology Major students who have expressed an interest in chemistry. The course listing of this Combined Major mirrors very closely that of the existing Combined Honours: Chemical Biology; providing the same foundational content. It should attract students interested in a more chemical understanding of biology, and those intending to pursue professional degrees or a career in chemical biology. One of the major challenges facing humanity is the understanding and treatment of

disease, and the general improvement of human health. Graduates from this specialization will be well prepared to meet these challenges.

Learning Objectives

This specialization will provide students with a solid foundation for pursuing

- a) graduate school in either biology or chemistry or related fields, such as food science.
- b) professional degrees, such as medicine, dentistry, pharmacy, and veterinary medicine.
- c) a variety of careers, such as in the pharmaceutical, food science, or health and environmental monitoring industries.

The courses in the specialization have been strategically chosen to deliver the core, foundational concepts in biology, as well as a solid introduction to all the subdisciplines in chemistry. Upper-level courses build content directly related to areas of overlap between chemistry and biology. The specialization also provides a solid laboratory experience in both biology and chemistry, and a specialized communication skills course (CHEM 300) as part of the Faculty of Science Communication Requirement. Finally, using selections from course lists and electives, a high degree of flexibility has been built into the specialization so that students may easily tailor it. This is particularly important given the diversity of objectives for the specialization; students need the credit space to take electives related to their future career plans.

Budget and Library Impact

The proposed specialization specifies courses that already exist and are used in many other specializations. No new courses are needed and no significant changes in course populations are expected as a result of creating this specialization. Thus, there should be no additional budget or library impact.

Consultation

This specialization was created collaboratively by the departments of Biology and Chemistry.

Supporting Documents: SCI-14-2-CMJ Chemical Biology

Contact: Dr. Norm Hutchinson Phone: 822-8818	Faculty Approval Date: March 3, 2015 Email: norm@cs.ubc.ca
BIOLOGY	
<p>Effective Date for Change: 15S Proposed Calendar Entry:</p> <p>BIOL 233 (3) Genetics for Life</p> <p>How genetic differences determine individual characteristics, and how they are inherited, analyzed, and modified. Emphasis on genetic diversity, human ancestry, personal genomics and cancer genetics. [3-0-2]</p> <p>Prerequisites: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001, or (c) a corequisite of CHEM 203 and one of BIOL 112 or BIOL 121.</p>	<p>Present Calendar Entry: N/A</p> <p>Action: Create new course.</p> <p>Rationale: UBC has recently been encouraging the development of flexible learning courses. BIOL 233 has been designed to allow students to take advantage of the learning flexibility provided by the many online learning resources of a MOOC (Massive Open Online Course) while also providing rigorous quantitative assessment of learning. BIOL 233 is a ‘flipped’ course with online lectures and weekly problem-based face-to-face tutorials. It brings to UBC students the pedagogical and curricular advances developed in the UBC MOOC Useful Genetics, recouping UBC’s investment in this open course. BIOL 233 will give students in the Biology specialization an alternative way to satisfy their genetics requirement. The current required genetics course, BIOL 234 (Fundamentals of Genetics), emphasizes traditional and molecular research methodology, especially genetic analysis (investigation of genetic processes using data from genetic crosses). However, recent advances have dramatically increased the personal and societal relevance of genetics, and many students will now be better served by a course that prepares them to apply genetics principles to life beyond the classroom and the laboratory. BIOL 233 teaches the same core concepts as BIOL 234. However it replaces BIOL 234’s research focus with emphasis on the human relevance of natural genetic differences and modern genetic resources.</p>
	<p>Supporting Documents: SCI-14-2-BIOL 233</p>

<p>Effective Date for Change: 15S Proposed Calendar Entry:</p> <p>BIOL 431 (3) Evolutionary Cell Biology</p> <p>Ultrastructure, biogenesis and evolution of eukaryotic cells and cell organelles, including their macromolecular basis. [3-0-0]</p> <p>Prerequisite: BIOL 200. And fourth-year standing.</p>	<p>Present Calendar Entry:</p> <p>BIOL 431 (3) Advanced Cell Biology</p> <p>Ultrastructure, biogenesis and evolution of bacterial and eukaryotic cells and cell organelles, including their macromolecular basis. [3-3-0]</p> <p>Prerequisite: BIOL 200. And fourth-year standing.</p> <p>Action: Modify course title and update course description, modify course vector. Rationale: The proposed title change is more descriptive and better reflects the course content. The description has been updated to remove reference to bacterial cellular evolution, since eukaryotic cellular evolution is the focus of BIOL 431. The vector has been modified to remove the lab component of this course. BIOL 431 has not had a lab component since prior to 1995W. Therefore, the proposed vector change will not remove any course content and will more accurately represent the course structure.</p> <p>Supporting Documents: SCI-14-2-BIOL 431</p>
<p>Effective Date for Change: 15S Proposed Calendar Entry:</p> <p>BIOL 432 (3) Research Strategies and Techniques in Cell Biology</p> <p>Major physiological mechanisms that define eukaryotic cells, explored through student visits to UBC research laboratories and discussion of recent scientific literature, with emphasis on the techniques and strategies that enable researchers to test hypotheses and advance new concepts. [3-0-0]</p> <p>Prerequisite: All of BIOL 200, BIOL 362, fourth year standing, and one of BIOL 233, BIOL 234</p>	<p>Present Calendar Entry:N/A</p> <p>Action: Create new course Rationale: One goal of the UBC Strategic Plan (Place and Promise) is to provide undergraduate students with the opportunity to pursue at least two enriched educational experiences. The proposed BIOL 432 will provide students with such an enriched educational experience. This course emphasizes contemporary techniques by enabling students to document and participate in experiments taking place in cutting edge research laboratories. This is a course in Advanced Cell Biology that teaches concepts related to current research programs here at UBC. The rationale for the course's emphasis on strategies and techniques is that in order to fully</p>

	<p>grasp scientific concepts, it is necessary to understand the methods used to collect and analyze data. There is not currently a course in the Biology Specialization that gives students an enriched experience in cell biology research and this course therefore serves as a capstone for students who have excelled in cell biology. Providing students with access to active cell biology research laboratories will be especially helpful for students preparing for graduate school.</p> <p>Supporting Documents: SCIE-14-2-BIOL 432</p>
PHYSICS	
<p>Effective Date for Change: 15S Proposed Calendar Entry:</p> <p>PHYS 117 (3) Dynamics and Waves</p> <p>Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. Please consult the Faculty of Science credit exclusion list: linkto: [http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,414] [3-0-1]</p> <p>Prerequisite: One of Physics 12, PHYS 100.</p> <p>Corequisite: One of MATH 100, 102, 104, 110, 120, 180, 184.</p>	<p>Present Calendar Entry: N/A</p> <p>Action: Create new course. Rationale: This course gives students an additional choice for their first university physics course: a calculus-based introduction to Newtonian Mechanics, the starting point for the rest of physics. This is the standard first semester of physics at nearly every university. PHYS 107 is such a course, but it has grade restrictions for registration. PHYS 101 is taught at a lower mathematical level, and the content has drifted away from mechanics and towards physics for the life-sciences, so it is no longer optimal for physical-sciences students.</p> <p>Supporting Documents: SCI-14-2-PHYS 117</p>
<p>Effective Date for Change: 15S Proposed Calendar Entry:</p> <p>PHYS 118 (3) Electricity, Light and Radiation</p> <p>Optics, electricity and magnetism, electric circuits, radioactivity, including biological applications. Please consult the Faculty of Science credit exclusion list: link to: [http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,414] [3-0-1]</p>	<p>Present Calendar Entry: N/A</p> <p>Action: Create new course. Rationale: This change will reduce the workload for many students by moving the lecture content of the present PHYS 102 (with integrated lab) to a new lecture-only course PHYS 118. The tutorials will be every week. This will allow the tutorials to more completely reinforce the lecture material.</p>

<p>Prerequisite: One of PHYS 101, 107, 117. One of MATH 100, 102, 104, 110, 120, 180, 184.</p> <p>Corequisite: One of MATH 101, 103, 105, 121.</p>	<p>The new lab course PHYS 119 is available to provide an improved and extended lab experience to replace the lab component of PHYS 102 for those who wish it.</p> <p>Supporting Documents: SCI-14-2-PHYS 118</p>
<p>Effective Date for Change: 15S Proposed Calendar Entry:</p> <p>PHYS 119 (1) Experimental Physics Lab</p> <p>Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. Please consult the Faculty of Science credit exclusion list: link to: [http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,414] [0-3-0]</p> <p>Prerequisite: One of Physics 12, PHYS 100 and one of MATH 100, 102, 104, 110, 120, 180, 184.</p>	<p>Present Calendar Entry: N/A</p> <p>Action: Create a new course Rationale: PHYS 119 creates an improved laboratory experience to accompany the new lecture-only courses PHYS 117 and PHYS 118. It also allows flexibility for students who need lab credit but cannot register for PHYS 109 (due to grades) or PHYS 159 (open only to Applied Science).</p> <p>Supporting Documents: SCI-14-2-PHYS 119</p>



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

Phone 604 822 5239
Fax 604 822 5945
www.senate.ubc.ca

To: Senate
From: Senate Nominating Committee
Re: Composition of the Student Awards Committee
Date: 31 March 2015

The Senate Nominating Committee has received a request from Registrar to adjust an ex officio member on the Student Awards Committee to better reflect the organization of the department.

*That the composition of the Senate Student Awards be amended to change
“Director, Student Financial Services” to “Associate Registrar &
Director, Student Support and Advising”*

Respectfully submitted,

Dr Richard Tees
Chair
Senate Nominating Committee



31 March 2015

To: Senate

From: Senate Nominating Committee

Re: Senate Students Awards Committee – Change of Name

The Senate Nominating Committee has considered a request from the Senate Student Awards Committee to adjust its name to better reflect its formal terms of reference and the duties set out in the *University Act*.

At its meeting on 19 March 2015, the Senate Student Awards Committee passed the following motion:

To recommend that Senate Nominating Committee approve and recommend to Senate that the Senate Student Awards Committee be renamed the Senate Awards Committee.

The Student Awards Committee submits that the rationale for this request stems in part from the V-200 policy review process, wherein it has been noted that student awards form only one part of the broad range of awards across the University. Examples of non-student awards developed by UBC Office include faculty prizes, book prizes, and endowed prizes offered to external candidates through UBC. The Nominating Committee agrees that it would be beneficial to have a Committee review such awards rather than have them be presented directly to Senate.

The proposed name change would have no effect on its Terms of Reference, as non-student awards are already part of the Committee's mandate, and the reference to 'Student' in its name can be taken as an artificially constraint on its work. This constraint is also not present in the powers of Senate for awards as set out in the *University Act*. The Nominating Committee submits that the proposed name change would better reflect the mandate of the Awards Committee.

The attached memo includes, for your reference, the current Student Awards Committee Terms of Reference and membership. The proposed change has full support of the Awards Committee.

The Nominating Committee would respectfully request that Senate resolve as follows:

That the name of the Senate Student Awards Committee be changed to the Senate Awards Committee

Senate Student Awards Committee

Membership

Dr. Stavros Avramidis
Dr. Lawrence Burr
Dr. Bikkar Lalli
Mr. Haymen Leong
Dr. Nancy Perry
Dr. Claudia Ruitenber
Dr. Bonita Sawatzky

Mr. Graham Beales (student) (Chair)
Mr. Cole Leonoff (student)

Chancellor (ex-officio) (voting)
President (ex-officio) (voting)
Registrar (ex-officio) (voting)
Dean, Faculty of Graduate and Postdoctoral Studies (ex-officio) (voting)
Director, Student Financial Services (ex-officio) (voting)
Director, Graduate Awards and Development, Faculty of Graduate and Postdoctoral Studies (ex-officio) (voting)
Manager, Student Financial Support (ex-officio) (non-voting)
Associate Director, Awards, Development Office Gifts and Estate Planning (ex-officio) (non-voting)
Associate Director, Annual Awards, Development Office, Gift and Estate Planning (ex-officio) (non-voting)

Terms of reference

To recommend awards, fellowships, scholarships, exhibitions, bursaries and prizes to Senate for approval, to report to Senate on matters of policy under discussion by the Committee, and to make recommendations to Senate with respect to regulations and policies for awards (Senate minutes, October 2014).

To advise Enrolment Services and the Faculty of Graduate and Postdoctoral Studies on matters of policy relating to awards, fellowships, scholarships, exhibitions, bursaries and prizes (Senate minutes, October 2014).

Quorum: 5 voting members (Senate Minutes, October 2014)

Composition: 9 Senators (including 2 student members and 2 convocation members)



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

Phone 604 822 5239
Fax 604 822 5945
www.senate.ubc.ca

To: Senate
From: Senate Nominating Committee
Re: Changes to Committee Memberships
Date: 31 March 2015

The Senate Nominating Committee is pleased to recommend that Senate resolve as follows:

That Dr Stavros Avramidis and Mr William McNulty be appointed to the Senate Committee on Appeals on Academic Standing until 31 August 2017 and thereafter until replaced, to replace Prof. Bonnie Craig and Mr Haymen Leong.

Respectfully submitted,

Dr Richard Tees
Chair
Senate Nominating Committee



To: Senate
From: Senate Nominating Committee
Re: Appointments to the President's Advisory Committee for the Selection of a Vice-Provost and Associate Vice-President Career and Personal Education
Date: 31 March 2015

The Senate Nominating Committee has received a request from the Provost to appoint four (4) persons to this Committee, pursuant to the joint Senate and Board Policy on Appointments of Designated Senior Academic Administrators (Policy 18).

The Senate Nominating Committee is pleased to recommend that Senate resolve as follows:

That Mr Aaron Bailey, Dean Blye Frank, Mrs Carol Jaeger, and Dr Paul Keown be appointed to the President's Advisory Committee for the Selection of a Vice-Provost and Associate Vice-President Career and Personal Education.

Respectfully submitted,

Dr Richard Tees
Chair
Senate Nominating Committee



2 April 2015

From: Senate Student Awards Committee

To: Senate

Re: New Awards and Changes to Existing Awards (March 2015)

The Student Awards Committee recommends:

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

CENTENNIAL Faculty of Forestry Aboriginal Award – Awards totalling \$1,750 have been made available through an endowment established by the Faculty of Forestry for undergraduate Aboriginal students in the Faculty of Forestry in good academic standing. If there are no eligible Aboriginal students in any given year then the awards may be given to students in the Faculty of Forestry with a demonstrated interest in Aboriginal studies. This endowment has been established in recognition of UBC’s Centennial, and the Faculty and UBC’s shared strategic commitment to Aboriginal Engagement. The awards are made on the recommendation of the Faculty of Forestry. (First Award Available in the 2015/2016 Winter Session)

Dr. Stephen D. CLARKE Resident Travel Award – A \$2,000 award has been made available through an endowment established in honour of Dr. Stephen D. Clarke for a third or fourth year Neurology resident who demonstrates strong clinical and communication skills as well as commitment to and strength in teaching. The award will be used for a Neurology resident to attend a conference related to the recipient’s interest in Neuroscience or medical education. The award was created in honour of Dr. Stephen D. Clarke, a masterful clinician and a dedicated and consummate teacher for the Division of Neurology at St. Paul’s Hospital between 1985 and 2014. The award is made on the recommendation of the Neurology Awards Committee. (First Award Available in the 2014/2015 Winter Session)

Peggy and Tom ENGLISH, QC Bursary in Law – A \$1,750 bursary has been made available through an endowment established by J. Thomas and Peggy English to assist a student at the Peter A. Allard School of Law. The award is established on the occasion of the 50th anniversary of Tom’s call to the bar in British Columbia. Tom and Peggy were married



three days before Tom entered his first year of Law at UBC and Peggy was enrolled in the Faculty of Applied Science pursuing a Bachelor of Nursing degree. At the end of Tom's second year of Law, and one month before Peggy received the gold medal in Nursing, their son Scott was born. With financial assistance unable to come from their parents, Tom and Peggy had to survive on income from summer jobs and most importantly from scholarships that each of them were awarded. Without that financial assistance they would not have been able to graduate. Accordingly, they are delighted to provide assistance to law students in need to ease the financial burden that they themselves experienced. The award is adjudicated by Enrolment Services. (First Award Available in the 2015/2016 Winter Session)

FACULTY of Science PhD Tuition Award – Funded by the Graduate Support Initiative, awards are offered annually to domestic and international students who are registered full-time in PhD degree programs in the Faculty of Science at The University of British Columbia. Awards are made on the recommendation of the Faculty of Science in consultation with the Faculty of Graduate and Postdoctoral Studies. (First Award Available in the 2015/2016 Winter Session)

John and Jill INNES Aboriginal Award in Forestry – Awards totalling \$1,200 have been made available through an endowment established by John Innes and family for Aboriginal undergraduate students in the Faculty of Forestry. The awards may be renewable for up to an additional three years provided the recipient remains in good academic standing. Dr. John Innes graduated from Cambridge University in 1983 with a PhD, Geography. In 1999 he joined the Faculty of Forestry and in 2010 became Dean. Dr. Innes has dedicated his career to advancing sustainable forest management practices. These awards are made on the recommendation of the Faculty of Forestry. (First Award Available in the 2016/2017 Winter Session)

Gary and Anne MCPHAIL Award in Entrepreneurship – A \$5,000 award is offered annually by Gary and Anne McPhail for an undergraduate student who has completed their first year in the Bachelor of Commerce degree program in the Sauder School of Business. The award is for a student who has achieved good academic standing, has demonstrated financial need, and has an interest in family enterprise studies or entrepreneurship. Preference will be given to a Canadian citizen with demonstrated leadership ability and/or involvement in campus-related extra-curricular activities. The award is made on the recommendation of the Sauder School of Business. (First Award Available in the 2015/2016 Winter Session)

MOTION Metrics Mining Graduate Scholarship – A \$5,000 scholarship is offered annually by Motion Metrics International to a Masters or PhD student who is entering their



second year of study. The graduate student must be supervised by a faculty member of the Norman B. Keevil Institute of Mining Engineering at the University of British Columbia. Preference is given to students who have demonstrated excellence in multidisciplinary, application-oriented research in mining and mineral processing and who wish to advance the area through continued study. Motion Metrics is a UBC spinoff whose advanced monitoring systems make the lives of people in mining easier, safer, and more connected. The award is made on the recommendation of the Norman B. Keevil Institute of Mining Engineering, in consultation with the Faculty of Graduate and Postdoctoral Studies. (First Award Available in the 2015/2016 Winter Session).

PUN Bursary in Medicine – A \$1,000 bursary is offered annually by Dr. Woon-Tak Stephen Pun (MD, 1968). The bursary is awarded to a student in the Faculty of Medicine MD Program who demonstrates financial need. Dr. Pun emigrated from Hong Kong to study medicine at UBC, and greatly appreciated the support he received as a new international student. He moved to Ontario where he established a family practice, and also served as a campus physician at a local university until retirement. Dr. Pun is married with two sons, and has 6 grandchildren. The award is adjudicated by Enrolment Services. (First Award Available in the 2015/2016 Winter Session)

B. Vincent REED, QC Award in Law – A \$1,000 award has been made available through an endowment established in honor of Faculty of Law alumnus B. Vincent Reed, QC. The award is for a student entering second year of the J.D. program who has achieved academic distinction and demonstrated commitment to the highest standards of the legal profession through involvement in community service or student leadership, thereby establishing the foundation of an exemplary legal career. The award is made on the recommendation of the Peter A. Allard School of Law. (First Award Available in the 2015/2016 Winter Session)

Olivia Sonja ROBERTSON Memorial Bursary – One or more bursaries totalling \$1,500 have been made available through an endowment established by friends and family in memory of Olivia Sonja Robertson, who died tragically at 19 in a car accident on November 23, 2013. The bursaries are for undergraduate students in their second year of studies in the Faculty of Arts, with preference given to students enrolled in the area of Humanities. Olivia, who had a kind, caring and inquisitive nature, and who held a mature “world perspective” which belied her youth, intended on serving as a catalyst for positive change through work at an NGO following graduation. Olivia had an extremely bright future and gave generously of her time in helping others. She was engaged in her UBC academic community, the local Vancouver community, and in fundraising efforts to help build a primary school in Jamaica. Olivia’s family and friends hope that recipients of these bursaries will emulate her passion for



giving back to her community, and truly appreciate that they too have the potential to serve as a future change-agent to make the world a better place. Adjudication is made by Enrolment Services. (First Award Available in the 2015/2016 Winter Session)

TAIWAN Scholarship at UBC – Scholarships of \$18,000 per year plus tuition for four years are made available through collaboration between the Ministry of Education in the Republic of China (Taiwan) and UBC. Up to five new scholarships will be offered each year to citizens of the Republic of China (Taiwan) who are pursuing a PhD in any field of study at UBC's Vancouver campus. Recipients will be selected on the basis of academic merit, and renewal of scholarship funding for the full four years is conditional upon recipients making satisfactory progress in their studies. The awards are made on the recommendation of the Ministry of Education in the Republic of China (Taiwan), in consultation with the Faculty of Graduate and Postdoctoral Studies. (First Award Available in the 2015/2016 Winter Session)

Dr. Paul TANG Memorial Graduate Scholarship in Philosophy – Scholarships totalling \$800 have been made available through an endowment established by the Estate of Dr. Paul Tang for graduate students in the Department of Philosophy. Dr. Tang received his undergraduate degree from UBC and went on to earn a PhD in Philosophy from Washington University in St. Louis, Missouri. Dr. Tang worked at California State University, Long Beach for over 22 years. While there he was a mentor of many students and directed about 25 M.A. theses. The awards are made on the recommendation of the Faculty of Arts in consultation with the Faculty of Graduate and Postdoctoral Studies. (First Award Available in the 2015/2016 Winter Session)

Previously-Approved Awards with Changes in Terms or Funding Source:

#503 Amy Woodland Scholarship:

Existing Description: Two scholarships of \$575 each have been endowed through a bequest from the late Archibald Raworth. They are awarded to students who are academically worthy and deserving and who are beginning or continuing studies at the University of B.C. Insofar as is practicable, the awards are made to students who have, for at least two years during school studies, attended a school in Cranbrook, B.C.



Recommended Description:

#503 Amy Woodland Scholarship – Two scholarships of \$500 each have been made available through an endowment established by a bequest from the late Archibald Raworth. The scholarships are awarded to academically worthy and deserving students who have, for at least two years of school studies, attended a school from School District No. 5, Cranbrook, B.C., and are beginning or continuing studies at the University of B.C. The awards are made on the recommendation of Enrolment Services.

Rationale for Change:

- Per Enrolment Services - School districts no longer make recommendations for admission and in the application process there is no where for students to state where they attended for elementary education.

#505 Archibald RAWORTH Scholarship

Existing Description: Two scholarships of \$500 each have been endowed by a bequest from the late Archibald Raworth. The scholarships are awarded to academically worthy and deserving students beginning or continuing studies at the University of B.C. Insofar as is practicable, the awards are made to students who have for at least two years of school studies, attended a school in Cranbrook, B.C.

Recommended Description:

#505 Archibald Raworth Scholarship – Two scholarships of \$500 each have been made available through an endowment established by a bequest from the late Archibald Raworth. The scholarships are awarded to academically worthy and deserving students who have, for at least two years of school studies, attended a school from School District No. 5 in Cranbrook, B.C., and are beginning or continuing studies at UBC. The awards are adjudicated by Enrolment Services.

Rationale for Change:

. Per Enrolment Services - School districts no longer make recommendations for admission to UBC.



#611 Bert Henry Memorial Scholarship

Existing Description: A scholarship of \$2,000 has been endowed by the late Gladys Henry. The award is made to a student proceeding from Senior Secondary School to the University of British Columbia. The award is based primarily on the student's scholarly achievement.. The exact value of the renewals may fluctuate depending on the total funds available.

Recommendation Description:

#611 Bert Henry Memorial Scholarship – A \$2,000 has been made available through an endowment established by the late Gladys Henry. The award is made to a student proceeding from Senior Secondary School to the University of British Columbia. **Holders of this scholarship who maintain a minimum 75% average or stand in the top 10% of their class in a full program of study are eligible to have the award renewed for a further three years of study.** The exact value of the renewals may fluctuate depending on the total funds available. **The award is adjudicated by Enrolment Services.**

Rationale for Change:

- Per Enrolment Services, the award renewal criteria have been edited in order to comply with current Senate regulations.

#4610 Merck Frosst National Entrance Scholarship

Existing Description: Two scholarships of \$1,700 each have been endowed by Merck Frosst Canada Inc. and the Province of British Columbia. The awards are offered to undergraduate students entering the Faculty of Science from secondary schools.

#4610 Merck Frosst National Entrance Scholarship – Two scholarships of \$1,700 each have been made available through an endowment established by Merck Frosst Canada Inc. and the Province of British Columbia. **The awards are offered to undergraduate students entering the Faculty of Science from secondary schools. The awards are made on the recommendation of Enrolment Services.**

Rationale for Change:

- Per Enrolment Services, schools no longer nominate students, selection done by Enrolment Services.



31 March 2015

From: Michael Coughtrie, Dean of Pharmaceutical Sciences

To: UBC Vancouver Senate

Re: The John McNeill Excellence in Health Research Mentorship Award

Motion: *“That Senate approve and recommend to the Board of Governors the establishment of the ‘John McNeill Excellence in Health Research Mentorship Award’ to be awarded annually according to the attached guidelines.”*

Under the *University Act* Section 37.1 (i) the Senate is given the responsibility to recommend to the board the establishment of any fellowship, scholarship, exhibition, bursary or prize. Therefore, the Faculty of Pharmaceutical Sciences submits to Senate the attached proposal for a \$10,000 mentorship award to be awarded annually by the Faculty of Pharmaceutical Sciences, in honour of Dean Emeritus John McNeill. This flagship award recognizes faculty members at any stage in their academic career, in any of UBC’s health-related disciplines, who have formally been identified as mentors and who exemplify a deep commitment to fostering the professional and personal development of faculty colleagues, graduate students, and post-doctoral fellows, in the early stages of their academic career. Award recipients must be faculty members with at least 2 years of continuous service in a health-related discipline at UBC’s Vancouver Campus. The recipient will be selected by an interprofessional committee appointed by the Associate-Provost Health.

For over four decades, John’s leadership has helped distinguish the Faculty of Pharmaceutical Sciences as one of Canada’s best graduate programs and research environments. In the Centennial Year for UBC 2015-16, the establishment of this award by two outstanding alumni in recognition of their Mentor paves the way for future excellence in research and research capacity in Health at UBC. The award is made on the recommendation of the committee established by UBC Associate-Provost Health.



The John McNeill Excellence in Health Research Mentorship Award

Quick Facts

This prestigious award for Excellence in Health Research Mentorship recognizes outstanding mentorship by faculty members at any stage in their academic career in any of UBC's health-related disciplines and who have served a minimum of 2 continuous years at UBC's Vancouver Campus.

Annual Value: An award of \$10,000 will be presented to the recipient in the fall of each year with the first award being offered in Fall of 2015.

Recognition: The recipient of the award will also receive a commemorative certificate, be invited to present to the UBC community during the year she/he receives the award on the topic of their research and their approach to mentoring. Further recognition will take place at Spring Congregation following the award.

Award Description:

A \$10,000 mentorship award is being awarded annually by the Faculty of Pharmaceutical Sciences, in honour of Dean Emeritus John McNeill who joined the Faculty in 1971. This flagship award recognizes faculty members at any stage in their academic career, in any of UBC's health-related disciplines, who have formally been identified as mentors and who exemplify a deep commitment to fostering the professional and personal development of faculty colleagues, graduate students, and post-doctoral fellows, in the early stages of their academic career. Award recipients must be faculty members with at least 2 years of continuous service in a health-related discipline at UBC's Vancouver Campus. The recipient will be selected by an interprofessional committee appointed by the Associate-Provost Health.

For over four decades, John's leadership has helped distinguish the Faculty of Pharmaceutical Sciences as one of Canada's best graduate programs and research environments. In the Centennial Year for UBC 2015-16, the establishment of this award by two outstanding alumni in recognition of their Mentor paves the way for future excellence in research and research capacity in Health at UBC. The award is made on the recommendation of the committee established by UBC Associate-Provost Health.

Eligibility

To be eligible, nominees must be faculty members with at least 2 years of continuous service in a health-related discipline at UBC's Vancouver Campus, and must be engaged in research. Nominees



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may be at any stage in their academic career. Notwithstanding the above, adjunct, Emeriti and Honorary faculty are not eligible for this award.

Evaluation Criteria:

This award recognizes a faculty member's outstanding ability to foster the intellectual, professional, and personal development of faculty colleagues, graduate students, and post-doctoral fellows, in the early stages of their academic career. The following attributes of an effective mentor will be considered by the adjudication committee. An exemplary applicant:

- Models excellence in scholarship, professional conduct, and integrity, instilling a desire in others to emulate these qualities;
- Encourages, inspires and supports colleagues and students to reach their full potential in ways that are tailored to each individual;
- Fosters the development in student competencies in critical thinking, scholarly rigour, breadth of understanding and creativity, and professional competencies in areas such as written and oral communication, scholarly integrity and interpersonal interactions.
- Promotes and models a climate of respect and collaboration;
- Integrates students in the culture of UBC Health and helps them network with relevant individuals; and,
- Advocates for colleagues, peers and students and encourages them to make the best use of institutional and professional opportunities at UBC (e.g., professional development, workshops, courses and conferences).

Nomination Procedures:

Each Faculty on the Vancouver Campus may submit up to two nominations to the Associate-Provost Health annually. Nominations will be accepted no later than September 30th, 2015.

Each nomination package must include a letter of support from the Department Head or equivalent (e.g, an Associate Dean) together with appropriate supporting materials such as the following:

1. A statement detailing why the nominee qualifies for the award including the following information:
 - a. How the nominee and his/her activities are part of a health-related discipline at UBC;
 - b. The essential and unique features of mentoring within the discipline and beyond;
 - c. Evidence of their students'/mentees' productivity and excellence, as reflected in awards held, publications, and other scholarly accomplishments by students mentored;



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- d. Faculty/Student progress, as reflected in retention rates, satisfaction with supervision, guidance or mentorship and faculty/student involvement in professional organizations; and,
 - e. Student placement and/or Faculty Progression – as reflected in the success of former students and/or faculty colleagues including positions held and contributions made to their chosen field.
2. A short statement by the nominee describing his or her philosophy on mentoring and how he or she views the role, including comments on approaches to promoting Faculty and/or student success.
3. The nominee's current curriculum vitae.
4. A list of all individuals mentored including brief descriptions of any notable circumstances of faculty, colleagues or students.
5. Three letters of support from individuals who are being/were mentored by the nominee, each including a summary of the author's experience with the nominee and subsequent career development.
 - a. Only letters signed by the author are acceptable; and,
 - b. Original, faxed and scanned copies sent by email directly to the department are acceptable.

Materials regarding undergraduate teaching will not be considered for this competition and should not be included in the nomination packages.



26 March 2015

From: Simon Peacock, Dean of Science

To: UBC Vancouver Senate

Re: The UBC Mathematics and Pacific Institute for the Mathematical Sciences
Faculty Award

Motion: *“That Senate approve and recommend to the Board of Governors the establishment of the ‘UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award’ to be awarded annually according to the attached guidelines.”*

Under the *University Act* Section 37.1 (i) the Senate is given the responsibility to recommend to the board the establishment of any fellowship, scholarship, exhibition, bursary or prize. Therefore, the Faculty of Science submits for your approval the **UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award**, which was created by the initiative of Anton Kuipers, together with Dr. Darrell Duffie and the support of the Faculty of Science, Department of Mathematics and the Pacific Institute for the Mathematical Sciences. The inaugural prize will be awarded in 2016.

A UBC alumnus and current staff member in the UBC Faculty of Science Development Office, Mr. Kuipers believes in the importance of mathematics to current research methods and results. It is his personal hope that professors at UBC, especially those who haven't yet had long tenure as faculty, have the opportunity to lead successful research careers and use mathematics to pursue innovative research directions.

With this award, the University of British Columbia, Faculty of Science will highlight and support a distinguished researcher at UBC who displays a strong commitment to using novel mathematical applications in their scientific research methods. This faculty member will have had less than ten (10) years of tenure at the University of British Columbia (Vancouver campus). The abstract they submit for review will demonstrate an affinity for the mathematical sciences and conscientious application of mathematic principles in their research. Any Assistant or Associate Professor in the University of



British Columbia's Faculty of Science who satisfies these criteria is eligible for the award.

The UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award Endowment Fund will provide funds to support and award the prize of the same name. An awards selection committee comprised of at least three reviewers from one or more of the Department of Mathematics, Department of Statistics and the Pacific Institute for the Mathematical Sciences, will submit a recommendation to the Head of the Department of Mathematics for final approval and administration of the award. The award, valued at \$1000, will be given annually and re-evaluated as needed.



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startanevolden.ca

Development and Alumni Engagement
500 - 5950 University Boulevard
Vancouver, BC Canada V6T 1Z3

Phone 604 822 8900
Fax 604 822 8151

Award Description

UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award Endowment Fund

A \$1,000 annual award has been established through an endowment gifted by Anton Kuipers and Darrell Duffie for Associate Professors or Assistant Professors in the Faculty of Science with less than 10 years of service at the University of British Columbia (Vancouver campus). Preference will be given to those demonstrating leading edge research in the area of their own expertise where math was critical as part of their fundamental research.

Candidates apply for the award by submitting a copy of their abstract to a panel committee appointed by the Head of the Department of Mathematics. A representative from the Pacific Institute for Mathematics will be invited to participate on the committee.

Discussed with Donor:

Signature (UBC Development Professional)

Title, Faculty/Department

(Print Name)

Date

Guidelines for the UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award Endowment Fund

(Administered by the University of British Columbia's Department of Mathematics)

1. Donor Information

The **UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award** was created by Anton Kuipers together with the generous support of Dr. Darrell Duffie to support Associate Professors and Assistant Professors starting out their academic careers in the Faculty of Science at UBC.

2. Genesis of the Award

Anton Kuipers, a 1977 Biology alumnus and current UBC Development Office staff member helped to establish this award with the support of the Faculty of Science, Department of Mathematics and Pacific Institute for the Mathematical Sciences.

3. Purpose of the Award

One **UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award** will be awarded annually to an Assistant Professor or Associate Professor in the Faculty of Science who uses math as a critical element of their fundamental research and has less 10 years of service at the University.

The goal of the award is to create a legacy that reflects on Anton and Darrell's collective beliefs in the mathematical sciences and its increasing role in advancing research techniques and outcomes.

4. Purpose of the Fund

The fund will support the UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award Endowment Fund. The University will hold the fund in trust and will use and manage the fund in accordance with the policies to support the Purpose. Without limiting the generality of the foregoing the University will:

- a. Make an annual allocation based on the spending rate established under the Endowment Management Policy and credit the annual allocation to the Fund's spending account; and
- b. use the funds in the spending account to support the Purpose.

5. Monetary Amount for Each Award

One award of \$1000.00 CDN will be disbursed annually. The inaugural award will be presented and distributed in 2016. The value of the award will be re-evaluated as needed and in line with the University's Endowment Policy.

6. Eligibility and Selection

To be considered eligible for an award, candidates must submit a copy of their abstract to the Award Selection Committee. The Faculty of Science and Department of Mathematics will jointly promote the award and publicize the application submission period. The Department of Mathematics is responsible for awarding the award.

Award candidate eligibility:

- 1.1 Must be an Associate Professor or Assistant Professor in the Faculty of Science; and
- 1.2 Must use math as a critical component of their research; and
- 1.3 Must have less than 10 years of service at the University of British Columbia

The Award Selection Committee will be comprised of a minimum of 3 reviewers from one or any of the followings units: Department of Mathematics, Department of Statistics or the Pacific Institute for the Mathematical Sciences and the final composition of the committee will be approved by the Head of the Department of Mathematics. The committee submits their recommendation to the Head of Mathematics for final approval.



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UBC MATHEMATICS AND PACIFIC INSTITUTE FOR THE MATHEMATICAL SCIENCES FACULTY AWARD ENDOWMENT TRUST AGREEMENT

1. Name of Fund

The gift of **\$30,000** (the “**Gift**”) from **Anton Kuipers** (the “**Donor**”) together with **Darrell Duffie** will be used to establish the **UBC Mathematics and Pacific Institute for the Mathematical Sciences Faculty Award Endowment Fund** (the “**Fund**”).

2. The Endowment Pool

The University of British Columbia (the “**University**”) manages a large number of endowment funds in its Endowment Pool (the “**Endowment Pool**”), of which the Fund will be one. All of the endowment funds that make up the Endowment Pool are governed by the University’s policies, including the Endowment Management Policy and its associated procedures, as amended from time to time (the “**Policies**”).

3. Purpose of the Fund

The purpose of the Fund is to **support award[s] for Associate Professors and Assistant Professors in the Faculty of Science who use math as the principal component of their research at the University** (the “**Purpose**”).

The University will hold the Fund in trust and will use and manage the Fund in accordance with the Policies to support the Purpose. Without limiting the generality of the foregoing, the University will:

- (a) make an annual allocation based on the spending rate established under the Endowment Management Policy and credit the annual allocation to the Fund’s spending account; and
- (b) use the funds in the spending account to support the Purpose.

4. Investment of the Fund

The University may:

- (a) invest and reinvest the Fund in such investments as the University decides and in making those investments the University is not limited to the investments authorized by the *Trustee Act* of British Columbia or any other law relating to trust funds; and
- (b) invest and maintain the Fund as part of the Endowment Pool.

5. Additional Contributions

The University may accept or make further contributions to the Fund, from any source, whether by gift, Will or otherwise, provided that any further contributions will be governed by the trust terms established in this Endowment Trust Agreement.

6. Encroachment on the Fund

Although very uncommon, circumstances may arise where it is advisable for the University to encroach on the Fund. The University may encroach on the Fund in such circumstances but only if that encroachment is recommended by the President to the Board of Governors and is approved by the Board of Governors.

7. University Policy

Decisions, financial and otherwise, with respect to any award arising from the Gift, including the continuing eligibility of a person to hold an award or to obtain a renewal thereof, as well as any matters relating to the investment, management, use or administration of the Fund will be made in accordance with the Policies.

If, as a result of the Donor's wishes or other circumstances, the Board of Governors is of the opinion that it would be advisable to vary one or more terms of this Endowment Trust Agreement, keeping in mind the original spirit of the Gift, the Board of Governors may vary the term[s].

8. General

- (a) **Headings.** The use of headings is for convenient reference only and will not affect how this Endowment Trust Agreement is interpreted.
- (b) **Counterparts.** This Endowment Trust Agreement may be signed by original or by facsimile and executed in any number of counterparts, and each counterpart will be considered to be an original. All executed counterparts taken together will constitute one agreement.

- (c) **Entire Agreement.** This Agreement constitutes the entire agreement between the parties with respect to the matters set out herein and the Donor acknowledges that there are no terms or conditions governing the University's use of the Fund other than as expressly set out in this Agreement.

TO EVIDENCE THEIR AGREEMENT the Donor and the University have executed this Endowment Trust Agreement on the dates appearing below.

SIGNED by the Donor in the presence of:)

ALLAN BEREZNY
(Signature)

ALLAN BEREZNY
(Print Name)

4690 Kerangue Drive
(Address)

VICTORIA, B.C. V9G1S4
(Occupation)

UBC ADMINISTRATOR
Date

Signature of Anton Kuipers

The University of British Columbia
by its Authorized Signatory:

Arvind Gupta
President and Vice-Chancellor

Date

Approved as to form by the Office of the
University Counsel:

Date: _____



MEMO

March 9, 2015

TO: David H. Farrar, Vice-President, Academic and Provost
FROM: Gavin C. E. Stuart, Dean & Vice-Provost Health, Faculty of Medicine
RE: Approval of new chair: Reichwald Family UBC Southern Medical Program Chair in Preventative Medicine

Recommendation:

I recommend that Senate approve the establishment of a new chair, to be named the **Reichwald Family UBC Southern Medical Program Chair in Preventative Medicine**.

Pursuant to Section 3.1 of Policy #124, we require approval from Senate to create an endowed Chair and approve of its name.

Rationale:

The Reichwald Family UBC Southern Medical Program Chair in Preventive Medicine Endowment Fund (20E48120) will be used to establish the Reichwald Family UBC Southern Medical Program Chair in Preventative Medicine. The chair is a foundational investment in the Faculty of Medicine's Southern Medical Program. The creation of a prestigious academic leadership position will help to accelerate research into chronic disease prevention in BC's southern interior region, and position UBC's Okanagan campus as a leader in the field of preventive medicine.

The chair holder will be appointed to the Southern Medical Program and hold an appointment in an appropriate academic department as determined by the Dean of Medicine. The holder will be responsible for building a world-class academic research program focused on preventive medicine and chronic disease prevention and will focus on key public health issues of importance to the region of the Southern Interior and beyond.

The chair position will be sustained through an academic faculty position funded by the Southern Medical Program expansion budget, and a gift of \$3.5 million to establish the Reichwald Family UBC Southern Medical Program Chair in Preventive Medicine endowment Fund. The \$3.5M gift will be made to the University in two installments – the first payment of \$1.73M was made on May 29th, 2014, and the final payment to complete the pledge will be made by May 31, 2015.

GS: hh

CC: Fred Mikelberg, Vice-Dean, Academic Affairs
Sarah Roth, Assistant Dean, Development and Alumni Engagement
Janet Wang, Director, Finance, Faculty of Medicine
Dr. Allan Jones, Regional Associate Dean, Southern Medical Program

APPROVED


David H. Farrar
Provost and Vice President Academic

Date: Mar. 9, 2015

Attachment 1 – Approval from Dr. Allan Jones of the Proposed Plan
Attachment 2 – Approval from Janet Wang of the Proposed Budget

April 15, 2015

To : The UBC Senate

From : Dr. Stanley B Knight : Convocation Senator

Motion for the April 15th Senate Meeting Agenda.

Re : Motion to Censure the Athletics Management Committee.

Motion : That the Senate censure the University "Athletic Management Committee" (AMC - President, VP - Students, Manager of Athletics and Recreation) for designing, implementing, and maintaining the "Sports. Target Review" (STR) process in violation of the University Guiding Principles for decision making and policy development cited in the Student Mental Health and Wellbeing Policy.

An appropriate investigative and discipline procedure shall be initiated under the supervision of the VP Legal. Reference must be made to the 'arc of influence' of the AMC, the "enactment and enforcement" of policy decisions which have impact on student athletes as a specific "sub population," and specifically test the STR for violations of the Guiding Principles of Inclusivity, Flexibility, and Accessibility. Legal Services shall report their findings and a recommendation to the Senate and university community on or before October 5, 2015. Should the review conclude that the University / Senate Guidelines have been violated the report shall include reference to sanctions or discipline of the AMC and / or its Members appropriate to the university and appropriate relief or compensation to the student athletes.

Background

By approving the Student Mental Health and Wellbeing Policy (SMHWP) the Senate and Board of Governors (BOG) have provided an excellent reference for the development, implementation and evaluation of university programs and activities. The policy was initiated as a guideline for Senate committees and with BOG approval the policy is accorded institutional status. The policy document states that the Senate has a "central role in academic governance and can strongly influence the campus as a whole."

The foundations of the SMHWP draw upon the social / political principles of Inclusivity, Flexibility and Accessibility. The principles / guidelines provide a Framework for testing the emotional impact policy development and program implementation can have on students. The policy is consistent with an institutional goal to develop a healthy educational environment that embeds consideration of student mental health and wellbeing in all aspects of university decision- making.

The STR was adopted by the Athletic Management Committee (AMC) in 2012. It is a research and organization development model designed to investigate and rationalize university athletics around a Competitive Sports Model (CSM). The AMC advised the university that the STR was based on the Canadian Olympic committee's desire to win gold medals and "own the podium" at the 2010 Vancouver Winter Olympics. Although effective in the competitive Olympic arena it was considered inappropriate by university athletic leaders, student athletes and alumni who maintained that it was not consistent with the historical roots of the athletic program and the goal to develop a healthy institutional climate.

The AMC stated that the competitive sport's model was intended to expand recreational opportunities for the general student population. Critics stated that the STR and CSM provided no consideration for the wellbeing of the dedicated, high-level varsity intercollegiate athletes whose sports were threatened with elimination. It is estimated that the STR process cost \$400 000.

Mental Health and Wellbeing Policy : General Questions:

There are three significant general questions within the BOG approved policy document. They provide a test of the policy's effect on the student population at the design or implementation stage and can be a useful tool for post program evaluation.

The First Question relates to consideration of the possible impact of the policy on the student's "mental health and wellbeing." Given the general feeling among coaches, student athletes and their families that the STR was a hostile institutional exercise, described as: "brutal," "abusive," "demeaning," "threatening," "intimidating," and "unnecessary," it is bewildering how the designers and advisors could develop a procedure that was considered by so many supporters of university athletics as so destructive and wasteful.

The Second General question in the policy document asks : "Were there adequate opportunities for individuals whom the decision/policy may impact to provide their feedback to the decision makers and contribute to decision making?"

The Alumni* group provides the following comment:

"Clearly the answer to this is NO! The STR was launched in the spring/summer of 2012 when students were away from campus. Concerned alumni raised strong objections to the process, particularly to the uni-directional response choice which only allowed agreement with the principle of cutting varsity teams. The reactionary result was superficial and included a supposed extension to an on-line feedback portal, but the portal was closed within weeks of the students' return to campus so that there was little time for athletes to understand what was happening let alone provide feedback."

The Third General Question asks : "How does this decision/policy maintain or improve our students' capacity to act in their own interest?"

The Alumni group comments :

"With all the teams being 'evaluated' by this review, athletes and their coaches were intimidated into silence for fear that speaking up would increase the potential risk for their teams. In addition, there has been further intimidation of coaches and athletic staff whose jobs have been at risk and have been explicitly instructed that they are not to comment on the review process". "Given the intimidation and risks noted, students have not been empowered to act in their own interest."

*Save UBC Varsity Sports Committee." The website had 3500 online petitioners opposing the STR and its implications for university athletics.

Framework : Guiding Principles.

1. Inclusivity

Within the Guideline of "Inclusivity", the following sentence has particular relevance. "For students to build and maintain a sense of wellbeing, they must feel that they are valued members of the university community."

The Alumni group comments :

"The actions of the Athletic Management Committee have been disrespectful of varsity athletes and demonstrate that these students are not valued members of the university community."

Within the Framework Guidelines the approximately 600 "student Athletes" are a "subpopulation." The descriptor clearly differentiates them from the 49 000 other students, and the circumstances created by the STR. Although many of the student athletes have been protected from the STR process, by the coaches and an informal "oath of silence," they have all been affected by the circumstances created by the STR/AMC.

2. Flexibility

Fairness is considered the cornerstone of flexible policies and achieved by "applying clearly articulated policies and procedures." The guideline emphasizes the importance of policy clarity and that policy criteria must be known to students potentially affected by decisions. Throughout the STR process there have been many mixed messages which led the President to describe the management of the STR process as "higgly- piggly" at a local and national media conference. Clearly the STR has failed the "reasonable exercise of discretion and compassion criteria." '

The Women's Softball Team was perplexed and confused by the STR decision to cancel their funding. Why were they the enemy ? Why would the AMC spend more money on a legal action than the softball budget ? It is distressing for young people to make sense of 'organizational dissonance' and keep up academic and fitness levels.

The filing of the BC Supreme Court (BCSC) Lawsuit by the Women's Softball Team student athletes is a demonstration that the AMC was not willing to seriously address their grievance by mediation or internal remedies. The students have been placed under great stress and an unknown academic and athletic future by the university. Their pursuit of campus fairness has taken them to the BCSC. Having a student examined under oath in court, or in an examination for discovery by university lawyers is a very stressful and outrageous situation that could have been prevented by the AMC.

The experience of the Alpine Ski Teams verifies that the Softball team has been justified in pursuing legal redress for their grievance. The varsity alpine ski teams trusted the appeals process belatedly established by the STR / AMC only to find that they could not appeal to the decision maker but to an appointed arbitrator who had no knowledge of the background to the case and, significantly, had no power to make a decision. The final decision apparently was reserved for the V P – students / AMC to whom the students had no access and who was responsible for the original decision.

3. Accessibility

The STR fails the Accessibility test at all levels. Information was not easily available, there was a difference between public and private information, procedures and personnel were changed without explanation. During the STR process a coach was fired several days after his appointment and later given a payout based on a sexual discrimination claim. Both a hockey coach and a football coach were fired without explanation. Student athletes who were loyal to coaches and programs were faced with a loss of an important person and given no comfort from the AMC.

As an 'event' in the student athletes life there was no accommodation by the ATR or AMC for the unique nature of the university athletic culture. The athletes and teams felt they were "targets" for a process of elimination and were ill equipped to protect themselves and meet the demands of the STR. The STR process was questioned by researchers and the evaluation criteria were considered inconsistent with the original stated objectives.

Conclusion

The STR program was developed and approved by the AMC and imposed on the university in general and the student athletes and teams in particular. It was an unnecessary procedure that has created undue stress and introduced uncertainty into the athletic program and the lives of student athletes. It is unconscionable that the AMC would initiate such a costly and destructive process when there were alternate more compatible organizational development models or procedures that could achieve similar objectives. The fact that the Softball team has felt forced to turn to the courts to seek justice indicates that the AMC has violated the spirit and intent of the Mental Health and Wellbeing Policy.

A former UBC Athletics Department official stated that "There was a heartfelt sympathy for the coaches and players for the lack of predictability" created by the STR and the AMC.

Upon the review of the STR process and its impact on the emotional life of student athletes the VP – Legal should present their findings in a report to the university community and Senate on or before October 5, 2015. If there are sufficient grounds to determine that the AMC has violated the university Mental Health and Wellbeing policy and not managed their responsibilities in the best interest of the student athletes the report shall include a recommendation for appropriate sanctions of the AMC and / or its Members consistent with university policy. This may include dismissal, suspension, reassignment, formal apologies, fines, salary reductions etc.

The report should also make reference to appropriate relief for the student athletes that could include compensation and reference to the personal and academic impact of the STR.

Dr Stanley B. Knight : Convocation Senator with the assistance from the "Save UBC Varsity Sports Committee," and comments from various university Coaches, Student Athletes, their Parents, Faculty, fellow Senators and Alumni.