



Okanagan Senate

THE FIRST REGULAR MEETING OF THE OKANAGAN SENATE FOR THE 2012/2013 ACADEMIC YEAR

TUESDAY, SEPTEMBER 18, 2012

3:30 P.M. to 5:30 P.M.

ASC 130| OKANAGAN CAMPUS

1. Senate Membership – Mr James Ridge

a. Declaration of Vacancies (information)

The following positions are declared vacant:

- Representative of the Faculty of Management (for Dr Gurupdesh Pandher)
- Representative of the Faculty of Arts & Sciences (for Dr Daniel Murray)

b. Vice-Chair of Senate (approval)

Dr Jan Cioe has tendered his resignation as Vice-Chair of Senate effective 19 September 2012. A call for nominations for Vice-Chair for a term of one (1) year from 19 September 2012 is hereby issued with nominations due by the start of this meeting (3:30 pm on 18 September 2012). Nominations should be sent via email to christopher.eaton@ubc.ca or brought to his attention prior to the start of the meeting. A nomination has already been received for Dr Deborah Buszard. Should there be more than one nominee, an election shall be held under this item.

2. Minutes of the Meeting of May 17, 2012 – Dr Jan Cioe (approval) (Master Pages 3-15)

3. Business Arising from the Minutes

4. President's Remarks – Prof. Stephen J. Toope

5. Deputy Vice-Chancellor's Remarks – Prof. Deborah Buszard

6. From the Board of Governors – Dr Jan Cioe (information)

Confirmation that the following items approved by the Vancouver Senate were subsequently approved by the Board of Governors as required under the *University Act*

Senate Meeting of April 25, 2012

Curriculum proposals from the Faculties of Arts & Sciences, Creative & Critical Studies, and the College of Graduate Studies

Senate Meeting of May 17, 2012

Curriculum proposals from the Faculties of Applied Science, Arts & Sciences and Creative & Critical Studies.

New and Revised Awards

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7. **Admissions & Awards Committee - Dr Spiro Yannacopoulos** (approval)
 - a. Engineering Bridge Agreement between The University of British Columbia and Okanagan College (Master Pages 16-33)
 - b. Discontinuation of the Ph.D. Tuition Award and the International Partial Tuition Scholarship (Master Pages 34-37)
 - c. New Award (Master Page 38)
 8. **Curriculum Committee - Dr Dwayne Tannant** (approval)(Master Pages 39-71)
Curriculum Proposals from the Faculties of Arts & Sciences, Education, Health & Social Development, and Management.
 9. **Learning & Research Committee** (approval (Master Pages 72-73)
Emeritus Appointments
 10. **Reports from the Provost and Vice-President, Academic - Dr W. Wesley Pue** (information)
 - a. **Space Audit/Consultation** - with guest presenter(s) from Campus & Community Planning
 - b. **Centre for Optimization, Convex Analysis and Nonsmooth Analysis (COCANA)** (Master Pages 74-81)
 11. **Other Business**

Regrets: Kristen Elder, telephone 604.822.5239 or e-mail: kristen.elder@ubc.ca

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



Okanagan Senate

Minutes of 17 May 2012

DRAFT

Attendance

Present: Dr D. Owram (Vice-Chair), Mr F. Vogt (Acting Registrar), Mr R Adl, Mr J. Al Ramahi, Dr P. Arthur, Ms S. Baez, Dr P. Balcaen, Mr J. Baxter, Dean L. Bosetti, Mr S. Bullock, Ms M. Burton, Ms M. Campos, Dr J. Cioe, Dr F. de Scally, Dr R. Dods, Mr C. Gorman, Dean M Grant, Dr K Hewage, Dr S. Hilton, Dr C Labun, Ms J. Lawson, Mr C. Li, Dean C. Mathieson, Dr A Milani, Dr B. Nilson, Dr G. Pandher, Ms L. Patterson, Dr A. Phillion, Dr W. Pue, Dr D. Roberts, Mr R. Sharma, Mr. T Smith, Dr D. Tannant, Dean W. Tettey, Mr C. Tse, Dr G. Wetterstrand, Dean S. Yannacopoulos

Regrets: Dr L. Allan, Mr K. Aziz, Dean G. Binsted, Dr K. Carlaw, Mr. I Cull, Dean E. Hall, Ms F. Helfand, Dr J. Johnson, Ms S. Morgan-Silvester (Chancellor), Dr D Murray, Mr K. Nolan, Mr M Redekopp, Mr J. Ridge (Secretary), Dr C. Robinson, Dr C. Scarff, Dr P. van Donkelaar.

Guests: Ms N. Hager, Ms M. DeMarinis

Via Videoconference: Prof. S. Toope (President)

Recording Secretary: Mr C. Eaton.

Call to Order

The Vice-Chair called the ninth regular meeting of the Senate for the 2011/2012 Academic Year to order.

Senate & Committee Membership

The Acting Registrar declared nominations closed for Vice-Chair of Senate. Dr Jan Cioe was acclaimed elected as Vice-Chair of Senate for a term of no more than one (1) year commencing 18 May 2012.

The Acting Registrar informed Senate that Mr Simon Bullock and Mr Curtis Tse have been acclaimed as elected to the Senate Nominating Committee until 31 March 2013 and thereafter until replaced.

Minutes of the Previous Meeting

Jan Cioe	}	That the Minutes of the Meeting of 25 April 2012 be adopted as corrected.
Peter Arthur		

Correction: Spelling of Kasun Hewage

Approved.

Business Arising from the Minutes

SPACE AUDIT

The Provost advised that although he had hoped the next iteration of this document would be ready for today's meeting, more time was required by the Space Audit team. He assured Senate that it would be publicly available once completed.

Deputy Vice-Chancellor's Remarks

Dr Owram informed Senate that a draft International Plan was currently open for consultation. In other international news, the exchange agreements have been developed with York University (England) where there is interest in further joint programming and research. As a result of recent travels to Australia, partnerships are being formed with the Queensland University of Technology (QUT) and discussions have been opened with the University of Melbourne. We have also looked at Wine research programs being offered in Adelaide with an interest in developing similar programs at the Okanagan campus.

With regard to campus development, the new athletics facility (The "Hanger") is under construction; we hope it will be completed by 2013.

As this marked his last Senate Meeting, the Deputy Vice-Chancellor expressed his appreciation to the Senate for the past six years and thanked Senators for their time and commitment to the University.

In response to a question from Senator Cioe, the Provost agreed to supply him with a rendering of the "Hanger" building.

In response to a question from Senator Gorman, the Deputy Vice-Chancellor replied that the agreement with York would be for the Okanagan campus; Vancouver does not have a formal relationship with them.

President's Remarks

The President announced the appointment of Mr Bud Mortenson as Director of University Relations for the Okanagan campus, and reminded senators that Dr Pascal Spothelfer's term as Vice-President Communications & Community Partnerships was about to commence.

With respect to copyright discussions, Professor Toope referred to recent communications on UBC's decision to not enter into the Association of Universities & Colleges of Canada (AUCC) negotiated tariff with the Access Copyright consortium. The President expressed his thanks to

the Provosts' offices, the Library, and others around the campuses for their work on this issue. He noted that UBC would be the largest institution in Canada to not join, and that he expected Access Copyright to put us under some degree of pressure as a result. The expected savings to UBC are over \$1 million per year by arranging for our own copyright clearances and this is with UBC investing appropriate resources to ensure we have effective copyright clearance mechanisms and assistance.

Finally, the President expressed his thanks to the Deputy Vice-Chancellor for his service to the University, describing working with him as an unmitigated pleasure.

Candidates for degrees

Christopher L Gorman Peter Arhur	}	That the candidates for degrees, as recommended by the faculties and the College of Graduate Studies, be granted the degrees for which there were recommended, effective June 2012, and that a committee composed of the registrar, the appropriate Dean(s) or their appointed designates, and the Chair of the Okanagan Senate, be empowered to make any necessary adjustments. (2/3 majority required)
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Approved.

Academic Policy Committee

The Committee Chair, Dr Jan Cioe, presented.

FACULTY OF HEALTH & SOCIAL DEVELOPMENT TERMS OF REFERENCE

Jan Cioe Cynthia Mathieson	}	That Senate approve the Faculty Council Terms of Reference for the Faculty of Health and Social Development as set out in the attached proposal.
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Dr Cioe described this Health and Social Developments versions of the standard Terms of Reference documents required to be submitted to Senate under Policy O-2.

It was noted for Senate that only Education's terms of reference were now outstanding; a proposal was expected in the fall.

Approved.

Admissions Committee

See Appendix A: Admissions Summary

The Committee Chair, Dr Spiro Yannacopoulos, presented.

**CLASSIFICATION OF STUDENTS – VISITOR
FACULTY OF EDUCATION, ACADEMIC REGULATIONS – REGULATIONS GOVERNING SCHOOL
EXPERIENCE, LEARNING COMMUNITIES, PRACTICA AND ATTENDANCE
FACULTY OF EDUCATION, ADMISSION REQUIREMENTS FOR ETEP AND STEP – CRIMINAL
RECORD CHECK
SPECIFIC PROGRAM REQUIREMENTS FOR APPLICANTS FOLLOWING THE BC/YUKON
SECONDARY SCHOOL CURRICULUM – PRE-PHARMACY STUDIES
BFA MAJOR IN INTERDISCIPLINARY PERFORMANCE – DEADLINE FOR SUBMISSION OF
AUDITION REQUEST FORMS**

Spiro Yannacopoulos }
Jan Cioe } *That Senate approve the admissions proposal
for:*

*Classification of Students – Visitor, effective for
admission to the 2012 Summer
Session and thereafter;*

*Faculty of Education, Academic Regulations –
Regulations Governing School Experience,
Learning Communities, Practica and
Attendance, effective for admission to the 2012
Winter Session and thereafter;*

*Faculty of Education, Admission Requirements
for ETEP and STEP – Criminal Record Check
effective for admission to the 2012 Winter
Session and thereafter;*

*Specific Program Requirements for Applicants
Following the BC/Yukon Secondary School
Curriculum – Pre-Pharmacy Studies, effective
for admission to the 2013
Winter Session and thereafter; and*

*BFA Major in Interdisciplinary Performance –
Deadline for Submission of Audition Request
Forms effective for admission to the 2013
Winter Session and thereafter.*

Approved.

DEPUTY VICE-CHANCELLOR SCHOLARSHIPS

See Appendix B: Deputy Vice-Chancellor Scholarships

Spiro Yannacopoulos } *That Senate accept the revised awards as listed*
Gurupdes Pandher } *and forward them to the Board of Governors for*
approval.

Senator Yannacopoulos explained the rationale for changing the awards being funding capacity as well as ensuring fairness between students with differing credit loads.

Approved.

NEW AND REVISED AWARDS

See Appendix C: New and Revised Awards

Spiro Yannacopoulos } *That Senate accept the new and revised awards as*
Dwayne Tannant } *listed and forward them to the Board of Governors*
for approval; and
That a letter of thanks be sent to the donors.

Approved.

ANNUAL REPORT – APPEALS ON APPLICATIONS FOR ADMISSION, RE-ADMISSION AND TRANSFER TO PROGRAMS

Dr Yannacopoulos presented the Committee's annual report on appeals, noting that of the 14 heard, eight were accepted and six were dismissed. In response to a question from the floor, he advised that the number of appeals this year was comparable to last year.

Committee on Appeals of Academic Standing & Discipline

The Committee Chair, Senator Laura Patterson presented. She noted for Senate that no appeals were lodged over the past 12 months for matters of discipline; two appeals were considered for academic standing. In terms of trends, she asked that faculties be clearer in the course syllabi for course requirements and rules.

Senator Cioe noted that he appreciated the Committee's report expressing the issues relevant to appeals, but expressed his hope that more information – respecting privacy limitations – could be made available to help guide faculties and faculty members in knowing what situations to avoid.

Agenda:

Robbie Sharma

Curtis Tse

Appeals of Standing and Discipline

Jesse Baxter

Matt Redekopp

Curtis Tse

Curriculum:

Chun Li

Tim Smith

Learning and Research:

Jameel Al Ramahi

Kyle Nolan

Approved.

Reports from the Provost

SPACE AUDIT

The Provost apologised for the Space Audit Report not being ready in time for today's meeting. Once available, he assured Senate that the report would be placed on his website. In the past few weeks, this team has been reviewing classroom usage and optimization of administrative space.

DEAN SEARCHES

Senator Pue informed Senate that the Applied Science, Health & Social Development, and Management decanal searches were progressing: Applied Science will likely take until the autumn, Health & Social Development is now at the recommendation stage to the President and Board, and Management has three outstanding candidates identified and who are coming to campus in the upcoming weeks. In response to questions from the floor, the Provost advised that for Management there will be public forums next week and CVs will be available from the Provost's office; the names are not online for confidentiality reasons.

ANNUAL REPORTS FOR RESEARCH INSTITUTES

The Provost advised Senate that included in the Senate meeting materials are the research institute reports for this year.

Other Business

Senator Tse asked how Access Copyright would affect students.

The President replied that it was good news for students. He did not expect any particular pressures to be placed on students and there would be no additional costs to be passed on to students directly.

Ms Burton added that the Library is working with Student Services and the Centre for Teaching & Learning to develop workshops to help students with their own compliance.

The Deputy Vice-Chancellor expressed his hope that this situation would be invisible to students.

Adjournment

There being no further business, the meeting was adjourned at 4:10 pm.

Appendix A: Admissions Summary

Classification of Students – Visitor

Revise Academic Calendar entry to clarify that visiting students are eligible to attend the Okanagan if they are able to obtain a Letter of Permission from their recognized home institution. This change will allow students at a college or in a university transfer program to attend the UBC Okanagan campus to complete courses as visiting students.

Faculty of Education, Academic Regulations – Regulations Governing School Experience, Learning Communities, Practica and Attendance

Clarify Academic Calendar language regarding the two types of withdrawals from practicum.

Faculty of Education, Admission Requirements for ETEP and STEP – Criminal Record Check

Update Academic Calendar entry to include additional information regarding subsequent criminal offences.

Specific Program Requirements for Applicants Following the BC/Yukon Secondary School Curriculum – Pre-Pharmacy Studies

Revise Academic Calendar entry to include Biology 11 under ‘Courses Required But Not Included in the Calculation of the Average’ for the Pre-Pharmacy Studies program. Based on the current admission criteria, students could be admitted to Pre-Pharmacy Studies, but not be able to enrol in the Biology courses that make up the program.

BFA Major in Interdisciplinary Performance – Deadline for Submission of Audition Request Forms

In response to UBC’s January 31 application deadline, advance deadline for submission of audition request forms from the current March 15 to February 15.

Appendix B: Deputy Vice-Chancellor Scholarship

Deputy Vice Chancellor Scholarship for Continuing Students

Scholarships ranging in value from \$500 to \$1500 are offered by The University of British Columbia Okanagan to continuing domestic students entering second, third or fourth year at The University of British Columbia Okanagan. These scholarships recognize the value of continuing students and their academic achievement. (First awards available for the 2009/2010 Winter Session)

New eligibility and award adjudication criteria:

The award is based upon a fixed level of achievement:

Students must have attained a sessional average of at least 80% in the previous Winter session; and

Students must have been registered in a minimum 80% of a full-time course load in each term.

Deputy Vice-Chancellor Scholarship for International Students

Scholarships ranging in value from \$500 to \$1,500 are offered to continuing international students entering second, third or fourth year at The University of British Columbia, Okanagan Campus. These scholarships recognize the value of continuing international undergraduate students and their academic achievement. (First awards available for the 2011/2012 Winter Session)

New eligibility and award adjudication criteria:

The award is based upon a fixed level of achievement:

Students must have attained a sessional average of at least 80% in the previous Winter session; and

Students must have been registered in a minimum 80% of a full-time course load in each term.

Appendix C: New & Revised Awards

Vicki GREEN Graduate Award

A \$1,700 award has been endowed by Dr. Vicki Green, a member of the Faculty of Education at The University of British Columbia, Okanagan campus. The award is offered to a graduate student in the Faculty of Education, Okanagan campus, studying issues in social, economic, ecological, environmental and/or political sustainability. Candidates for the award are selected based on how their research will implement contemplative, transformational, imaginative, or creative interdisciplinary understandings in sustainability for children, youth, or teachers. The award is made on the recommendation of a selection committee comprised of members of the Faculty of Education. (First award available for the Winter 2012/13 session)

International Student Faculty Award (Okanagan)

Awards of \$5,000 each are offered to continuing international undergraduate students at The University of British Columbia, Okanagan campus. Students selected for these awards must have completed 60 credits towards their bachelor degree or be entering the third year of their program. Students must demonstrate strong academic achievement and engagement in their faculty, as well as the potential to make a scholarly contribution within their chosen field of study. The scholarships are made on the recommendation of the faculty in which the student is registered. (First awards available for the 2012/13 Winter Session)

KELOWNA BAR ASSOCIATION Award for Legal Studies

A \$1,000 award is offered by the Kelowna Bar Association to a student who has completed their final year in any undergraduate program offered by the Irving K. Barber School of Arts and Sciences at The University of British Columbia, Okanagan campus. The award is made on the recommendation of the School to a student who demonstrates academic excellence, leadership, and community involvement, and has been accepted into an accredited Canadian law school. Disbursement of the award is contingent upon documented proof of acceptance. (First award available for the 2011/12 Winter Session)

SECURIGUARD Scholarship in Arts and Sciences

A \$2,000 scholarship is offered by Securiguard to a second, third or fourth year student in the Irving K. Barber School of Arts and Sciences at The University of British Columbia, Okanagan campus. (First award available for the 2012/13 Winter Session)

SECURIGUARD Scholarship in Health and Social Development

A \$2,000 scholarship is offered by Securiguard to a second, third or fourth year student in the Faculty of Health and Social Development at The University of British Columbia, Okanagan campus. (First award available for the 2012/13 Winter Session)

SECURIGUARD Scholarship in Management

A \$2,000 scholarship is offered by Securiguard to a second, third or fourth year student in the Faculty of Management at The University of British Columbia, Okanagan campus. (First award available for the 2012/13 Winter Session)

Sharron SIMPSON Family Bursary

A \$1,000 bursary is offered by Sharron Simpson and family to a fourth or fifth year student enrolled in any undergraduate degree program at The University of British Columbia, Okanagan campus. Preference is given to a student with dependents and demonstrated financial need who graduated from a high school in the Okanagan region. (First award available for the 2012/13 Winter Session)

Jordan YOUNG Memorial Athletics Award

A \$1,400 award is offered by the family and friends of Jordan Young to a member of the Men's Volleyball Team in any year of study. Jordan was a valuable member of the Men's Volleyball Team and a skilled rookie with a bright future in sports ahead of him. His enthusiasm, character, and positive outlook were respected by Heat coaches and players alike. The award is made on the recommendation of the Athletics and Recreation Department at The University of British Columbia, Okanagan campus, to an outstanding student who has demonstrated excellent leadership skills and maintained good academic standing. (First award available for the 2012/13 Winter Session)

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

Gordon William HAUG Memorial Bursary

Bursaries up to \$2,000 are offered by Margot Haug in memory of her father, Gordon William Haug, to graduate students in the Biology Program or Environmental Sciences Program in the Irving K. Barber School of Arts and Sciences at The University of British Columbia Okanagan. Preference is given to students whose studies reflect an interest in environmental sustainability. (First awards available for the 2008/09 Winter Session)

Appendix D: Curriculum Summary

Faculty of Applied Science

New Course:

ENGR 535 (3) Railway Systems Engineering

Faculty of Arts and Science

New Courses:

BIOL 104 (3) Concepts of Biology: An Aboriginal Perspective

BIOL 350 (3) Clinical Neuroscience

BIOL 370 (3) African Savannah Biology

EESC 434 (3) Sediment Transport Mechanics

PSYO 349 (3) Positive Psychology

PSYO 457 (3) Applied Social Psychology in the Workplace

PSYO 474 (3) Program Evaluation

Creative and Critical Studies

New courses:

ARTH 420 (3) The Cinema of Alfred Hitchcock

SPAN 298 (3) Intensive Intermediate Spanish I (Heritage)

SPAN 299 (3) Intensive Intermediate Spanish II (Heritage)

SPAN 320 (3) Spanish-American Short Story

SPAN 323 (3) Contemporary Hispanic Poetry of Spain and Spanish
America

New Programs:

BFA Major In Visual Arts, Arts and Science Minor Programs

BFA Major in Interdisciplinary Performance, Arts and Science Minor
Programs

THE UNIVERSITY OF BRITISH COLUMBIA**OKANAGAN SENATE SECRETARIAT****Enrolment Services
Senate and Curriculum Services**

Okanagan Campus
University Centre · UNC 322
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Kelowna, BC · V1V 1V7
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September 18, 2012

To: Okanagan Senate

From: Admissions and Awards Committee

Subject: Engineering Bridge Admission Agreement between The University of British Columbia and Okanagan College (approval)

The Admissions and Awards Committee has reviewed the attached proposal for an engineering bridge admission agreement between The University of British Columbia, on behalf of its School of Engineering at the Okanagan campus, and Okanagan College, on behalf of its Science, Technology and Health Programs.

This proposal meets the definition for an affiliation between UBC and Okanagan College under Council of Senates' policy *C-2: Affiliations with Other Institutions of Learning* (see <http://senate.ubc.ca/council/policies>).

The purpose of the agreement is to provide a means by which students who have completed one of Okanagan College's Civil, Electronic, or Mechanical Technology diploma programs, together with a corresponding Civil, Electronic, or Mechanical Engineering Bridge program, can become eligible to transfer into the second term of the second year of the Bachelor of Applied Science program at the School of Engineering.

The affiliation agreement as proposed has been reviewed by the Office of the University Council.

Because this proposal is atypical to the general affiliation agreements specified in the policy that may be addressed by each campus, it must be approved by the Council of Senates.

Therefore, the Admissions and Awards Committee is pleased to recommend the following to Senate:

Motion: That Senate endorse and recommend the affiliation between the University and Okanagan College (as set out in the document entitled "Engineering Bridge Admission Agreement Between The University of British Columbia and Okanagan College" attached) to the Council of Senates for approval;

and

That, contingent upon the Council of Senates and Board of Governors approving the affiliation referenced above, Senate approve the changes to the admission requirements to the Bachelor of Applied Science program in the School of Engineering brought forward by the Faculty of Applied Science as set out in the attached proposal.

For the Committee
Dr. Spiro Yannacopoulos
Chair, Admissions and Awards Committee

ENGINEERING BRIDGE ADMISSION AGREEMENT

BETWEEN

**THE UNIVERSITY OF BRITISH COLUMBIA,
KELOWNA, BC**

AND

**OKANAGAN COLLEGE,
KELOWNA, BC**

This Engineering Bridge Admission Agreement (the "Agreement") is entered into between The University of British Columbia, on behalf of its School of Engineering at its Okanagan campus ("UBCO") and Okanagan College on behalf of its Science, Technology and Health Programs ("OC").

1. Objective of the Agreement

The purpose of this Agreement is to provide a means by which students who have completed one of OC's Civil, Electronic or Mechanical Engineering Technology diploma programs (each a "Engineering Technology Program") together with the corresponding Civil, Electrical or Mechanical Engineering Bridge Program (each a "Bridge Program") can become eligible to transfer into term 2 of year 2 of the Bachelor of Applied Science program at the School of Engineering, UBCO ("UBCO Engineering Program").

2. Conditions Precedent of Agreement

The parties hereby agree that this Agreement will not take effect until all the following conditions precedent have been satisfied:

- a) Approval as required by the appropriate academic and administrative governing bodies at each institution. The academic governing bodies at UBCO are its Senate and Council of Senates; the administrative governing body at UBCO is its Board of Governors. The academic governing body at OC is the Education Council; the administrative governing body at OC is its Board of Governors; and
- b) Approval by the Canadian Engineering Accreditation Board of Engineers Canada for course credits transfers from OC to UBCO.

The parties will diligently take the steps necessary to obtain these approvals.

3. Requirements for Student Eligibility under this Agreement

To be eligible for admission to the UBCO Engineering Programs, entering at the beginning of term 2 of year 2, OC students must meet the following academic requirements:

- a) Successful completion of a Engineering Technology Program with a minimum overall (cumulative) grade average of 80%; and
- b) Successful completion of the corresponding Bridge Program with:
 - i) a minimum grade of 60% in each Bridge Program course; and
 - ii) a minimum overall (cumulative) grade average of 70% in all Bridge Program courses other than English 100.

UBCO, in its sole discretion after consultation with OC, may waive the minimum eligibility requirement set out in Section 3 a) of this Agreement.

4. Application and Admission Process

Each year, prior to January 31, OC must advise students wishing to apply to the UBCO Engineering Programs to:

- a) Apply to UBCO through its standard application process and indicate that they are seeking admission through the UBCO engineering bridge admission process starting in the following academic year;
- b) Submit all post-secondary official transcripts directly to UBCO; and
- c) Apply to OC for admission into the appropriate Bridge Program.

Each year, prior to October 31, OC will, with the prior written consent of each student, submit to UBCO a list of students registered in the Bridge Programs.

Subject to the program limits set out in Section 5 of this Agreement, students who have completed one of the Engineering Technology Programs and the corresponding Bridge Program and who have met the eligibility requirements in Section 3, will be granted advance standing into term 2 of year 2 in the appropriate UBCO Engineering Programs as specified in Appendices 1, 2 and 3.

Students will only be permitted to register in an UBCO Engineering Program that matches the Bridge Program.

For up to 10 students from each of the OC Bridge Programs (Civil, Electrical and Mechanical), UBCO will grant conditional admission to and permit students to register for courses by January 1 prior to receiving their official OC transcripts for the Bridge Program. Once each student completes the Bridge Program, OC will submit his or her official transcripts to UBCO. After receiving these transcripts and confirming the student has met the eligibility requirements in Section 3, UBCO will unconditionally admit the student into term 2 of year 2 in the UBCO Engineering Programs.

UBCO and OC agree to take the steps necessary to provide students a conflict free time table to ensure the courses listed in Appendices 1, 2 and 3 can be offered during the terms as shown.

5. Program Limits

UBCO will guarantee a maximum of 10 seats per UBCO Engineering Program (Civil, Electrical or Mechanical) per academic year for OC students who satisfy the eligibility requirements set out in Section 3 of this Agreement.

If there are more than 10 students who apply for entry into a UBCO Engineering Program and who meet the eligibility requirements set out in this Agreement, UBCO will admit the ten students with the highest academic standing into each UBCO Engineering Program.

6. Implementation, Review and Curriculum Changes

Implementation of this Agreement will be through the Registrar's Office at each institution, in consultation with the units responsible for the delivery of the academic programs.

The parties will cooperate to make applicants aware of this Agreement and the terms and conditions under which students may complete the Bridge Programs and be eligible to transfer to UBCO Engineering Programs. The heads of the academic programs will conduct annual reviews of this Agreement.

The required courses for the Bridge Programs listed on Appendices 1, 2 and 3 are determined according to the courses in the Engineering Technology Programs. Should the courses change in the Engineering Technology Programs, the required Bridge Program courses are subject to change. OC will coordinate with UBCO, with as much lead time as possible regarding any proposed changes to the courses in the Engineering Technology Programs and Bridge Programs that would impact this Agreement.

UBCO will coordinate with OC, with as much lead time as possible regarding any proposed changes to the courses in the UBCO Engineering Programs that would impact this Agreement.

7. Notices

Any notice, request or other document which may or is required to be given under this Agreement will be in writing and be delivered or sent by fax or regular mail as follows:

To UBCO:

Director, School of Engineering
3333 University Way
Kelowna BC, V1V 1V7
Fax: 250-807-9850

or to such other address as UBCO may designate by written notice.

To OC:

Dean, Science, Technology and Health
1000 KLO Road
Kelowna, BC
V1Y 4X8

FAX: 250-862-5430

or to such other address as OC may designate by written notice.

8. Term and Termination

The term of this Agreement shall commence on January 1, 2013 following the satisfaction of all conditions precedent set out in Section 2 of this Agreement and will continue until December 31, 2017.

UBCO will assess OC students enrolled in the Engineering Technology Programs who have applied for advance standing into UBCO Engineering Programs in September 2012 on a case by case basis. The decision to admit any student will be in the sole discretion of the Dean of the Faculty of Applied Science.

Either party may terminate this Agreement upon six months written notice to the other party, and such termination shall take effect the following January 1.

In the event of a termination or expiration of this Agreement OC and UBCO agree:

- a) Students already enrolled in a Bridge Program will be permitted continue in their studies until they have concluded the Bridge Program (completion, withdrawal, academic dismissal or

- otherwise), and, if eligible and subject to Section 5, will be permitted to transfer to the corresponding UBCO Engineering Program;
- b) Students already enrolled in the UBCO Engineering Program pursuant to this Agreement will be permitted to continue in their studies until they have concluded the UBCO Engineering Program (completion, withdrawal, academic dismissal or otherwise).

9. Confidentiality

In this Agreement, “confidential information” will mean all information documentation or knowledge, in any form, not generally known to the public, obtained directly or indirectly from the parties to this Agreement, or any one of them, during the term of this Agreement, including the following:

- a) Information, documentation or knowledge from paper or electronic files accessed during the term of this Agreement;
- b) Personal information about an identifiable individual, including but not limited to student or employee names, addresses, identification numbers, passwords, evaluation tools, educational history, employment history, personal characteristics, and financial situations;
- c) Proprietary or financial information; and
- d) Any other similar information that exists or may arise in the future.

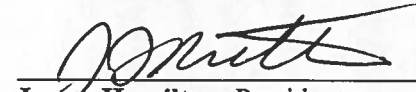
The parties agree not to disclose, directly or indirectly, any confidential information belonging to the other party, either during or after the term of this Agreement except as authorized in writing by the owner of the confidential information or as required by law. This Section will survive termination of this Agreement.

10. General

- a) **Entire agreement.** This Agreement is the entire agreement between these parties and no amendment of this Agreement will be valid unless such amendment is in writing and signed by both parties.
- b) **Assignment.** No party will assign its rights and/or obligations under this Agreement without the prior written consent of the other party.
- c) **Relationship of the Parties.** Nothing in this Agreement will be considered to constitute a joint venture, partnership, or employment relationship between the parties.
- d) **Severability.** If a provision of this Agreement is determined to be invalid or unenforceable by a court of competent jurisdiction, such provision will be severed, and all other provisions will remain in full force provided that the original intent of this Agreement is preserved in all material respects.
- e) **Waiver.** No waiver will be inferred or implied by anything done or omitted by the parties save only an express waiver in writing.
- f) **Governing law.** This Agreement will be governed by and construed under the laws of British Columbia and the applicable laws of Canada without reference to its conflict of law rules. Any action or proceeding brought to enforce the terms of this Agreement will be brought in a court in British Columbia, and the parties hereby consent and submit to the exclusive jurisdiction of such court.
- g) **Enuring Effect.** This Agreement will be binding upon and will enure to the benefit of the parties and each of their respective successors and permitted assigns.
- h) **Counterparts.** This Agreement may be executed in separate counterparts, each of which when so executed and delivered will be deemed to constitute an original, but all of which together will constitute one and the same document.

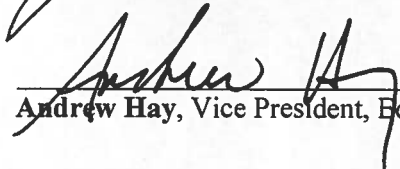
IN WITNESS WHEREOF, the parties have executed this Agreement.

On behalf of Okanagan College:



James Hamilton, President

July 10/12
Date



Andrew Hay, Vice President, Education

2012-07-11
Date

On behalf of The University of British Columbia:

Deborah Buszard, Deputy Vice Chancellor and Principal

Date

Wesley Pue, Provost and Vice Principal

Date

**Spiro Yannacopoulos, Associate Dean and Director
School of Engineering**

Date

Date

APPENDIX 1 - Civil

Courses required in Okanagan College Civil Engineering Bridge program effective 2012. These courses may change in the future.

CET to Civil Engineering Bridge Program	Term
CHEM 111-3-7 Principles of Chemistry I	1
COSC 111-3-6 Computer Programming I	1
ENGL 100-3-3 University Writing	1
MATH 212-3-4 Calculus III*	1
PHYS 215-3-3 Thermodynamics	1

* Note, students entering CET Bridge must meet prerequisite requirements for MATH 212

Courses required in UBCO Civil Engineering program to complete degree requirements for students entering the School of Engineering from the OC Civil Engineering Bridge program, effective 2012. These courses may change in the future.

		UBC Year 2	Term
		APSC 178 Electricity & Magnetism for Engineers	2
		APSC 254 Instrumentation & Data Analysis	2
		APSC 258 Applications of Eng. Design	2
		APSC 259 Material Science for Engineers	2
		Approved Humanities Course	2
UBC Year 3	Term	UBC Year 3	Term
APSC 246 System Dynamics	1	ENGR 305 Engineering Economic Analysis	2
APSC 255 Analog and Digital Systems	1	ENGR 326 Structural Analysis	2
APSC 256 Numer. Meth. For Eng. Analysis	1	ENG 330 Optimization & Decision Analysis for Civil Eng.	2
APSC 257 Technology, Environment, and Society	1	ENGR 335 Transportation Engineering	2
ENGR 327 Reinforced Concrete Design I	1	ENGR 342 Open Channel Flow	2
ENGL 347 Environmental Engineering	1	ENGR 4XX 4 th year technical elective	2
UBC Year 4	Term	UBC Year 4	Term
ENGR 341 Engineering Hydrology Standard course requirements for remaining portion of the Civil Engineering Program. (6 courses total per term)			

APPENDIX 2 - Electrical

Courses required in Okanagan College Electrical Engineering Bridge program effective 2012. These courses may change in the future.

EET to Electrical Engineering Bridge Program	Term
CHEM 111-3-7 Principles of Chemistry I	1
ENGL 100-3-3 University Writing	1
MATH 212-3-4 Calculus III	1
MECH 133-3-5 Materials Technology	1
MECH 134-3-4 Statics	1
PHYS 215-3-3 Thermodynamics	1

Courses required in UBCO Electrical Engineering program to complete degree requirements for students entering the School of Engineering from the OC Electrical Bridge program, effective 2012. These courses may change in the future.

		UBC Year 2	Term
		APSC 181 Dynamics	2
		APSC 253 Fluid Mechanics I	2
		APSC 254 Instrument and Data Analysis	2
		APSC 258 Applications of Engineering Design	2
		APSC 260 Mechanics of Materials	2
UBC Year 3	Term	UBC Year 3	Term
APSC 257 Technology, Environment and Society	1	ENGR 305 Engineering Economic Analysis	2
ENGR 303 Engineering Project Management	1	ENGR 315 Systems and Control	2
ENGR 353 Semiconductor Devices	1	ENGR 320 Electromech. Devices, Power Systems	2
ENGR 355 Digital Systems Design	1	ENGR 351 Microelectronics I	2
ENGR 362 Digital Signal Processing I	1	Approved Humanities Course	2
ENGR 365 Engineering Electromagnetics	1		
UBC Year 4		UBC Year 4	
Standard course requirements for Electrical Engineering Program in 4 th year. (6 courses total per term)			

APPENDIX 3 - Mechanical

Courses required in each Okanagan College Mechanical Engineering Bridge program effective 2012. These courses may change in the future.

MET to Mechanical Engineering Bridge Program	Term
ENGL 100-3-3 University Writing	1
CHEM 111-3-7 Principles of Chemistry I	1
MATH 212-3-4 Calculus III*	1
MATH 257-3-3 Mathematics for Electronic Engineering Technology III	1

* Note, students entering MET Bridge must meet prerequisite requirements for MATH 212

Courses required in UBCO Mechanical Engineering program to complete degree requirements for students entering the School of Engineering from the OC Mechanical Bridge program, effective 2012. These courses may change in the future.

		UBC Year 2	Term
		APSC 177 Eng. Computation & Instrumentation	2
		APSC 254 Instrumentation and Data Analysis	2
		APSC 258 Applications of Engineering Design	2
		ENGR 305 Engineering Economic Analysis	2
		Approved Humanities Course	2
UBC Year 3	Term	UBC Year 3	Term
APSC 256 Numerical Methods for Analysis	1	ENGR 315 Systems and Control	2
APSC 257 Technology, Environment and Society	1	ENGR 320 Electromech. Devices, Power Systems	2
ENGR 310 Fluid Mechanics II	1	ENGR 375 Energy Systems Design	2
ENGR 376 Material Science II	1	ENGR 380 Design of Machine Elements	2
ENGR 381 Kinematics & Dynamics of Machinery	1	ENGR 387 Vibrations of Mechanical Systems	2
ENGR 385 Heat Transfer Applications	1		
UBC Year 4		UBC Year 4	
Standard course requirements for Mechanical Engineering Program in 4 th year. Bridging students must take 6 electives, among them 5 must have minimum of 30% Engineering Design. (6 courses total per term)			



Admissions Proposal Form – Okanagan Campus

<p>Faculty: Applied Science School: Engineering Faculty/School Approval Date: August 23, 2012 Effective Session: 2013W (for inclusion in the Academic Calendar immediately for the purpose of advising prospective students)</p>	<p>Date: February 2011 Contact Person: Dr. Dwayne Tannant Phone: 250.807.8067 Email: dwayne.tannant@ubc.ca</p>
<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges School of Engineering Introduction</p> <p>Introduction</p> <p>[13687] A School within the Faculty of Applied Science</p> <p>Director's Office Spiro Yannacopoulos, Associate Dean and Director The University of British Columbia Okanagan Campus Engineering, Management & Education Building, 4249 3333 University Way Kelowna, BC V1V 1V7 Tel: 250.807.8723 Fax: 250.807.9850 Email: engineering.okanagan@ubc.ca Web: www.ubc.ca/okanagan/engineering/welcome.html</p> <p>[13595] The School of Engineering at the UBC Okanagan campus offers the Bachelor of Applied Science (B.A.Sc.)</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,317,988,0</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges School of Engineering Introduction</p> <p>Introduction</p> <p>[13687] A School within the Faculty of Applied Science</p> <p>Director's Office Spiro Yannacopoulos, Associate Dean and Director The University of British Columbia Okanagan Campus Engineering, Management & Education Building, 4249 3333 University Way Kelowna, BC V1V 1V7 Tel: 250.807.8723 Fax: 250.807.9850 Email: engineering.okanagan@ubc.ca Web: www.ubc.ca/okanagan/engineering/welcome.html</p> <p>[13595] The School of Engineering at the UBC Okanagan campus offers the Bachelor of Applied Science (B.A.Sc.)</p>



degree in Civil Engineering, Electrical Engineering, and Mechanical Engineering.

Each program is accredited by the Canadian Engineering Accreditation Board. Qualified applicants can be admitted directly from secondary school into Engineering One. Students may also enter the Engineering program after having successfully completed the equivalent of first-year Science. **There are also admission routes via engineering transfer programs at various colleges and Engineering bridge programs with Okanagan College and Camosun College.**

Following entry from secondary school, the B.A.Sc. degree generally requires four or five years to complete.

[13596] The first-year Engineering One program is common to all Engineering disciplines and lays the foundation for Engineering specializations in subsequent years. Engineering One is equivalent to first-year Engineering at the UBC Vancouver campus. The engineering-specific curriculum emphasizes project-based team learning, and offers first-year students the opportunity to implement the principles of engineering in a second-term design project. Upon successful completion of Engineering One, students have the option of continuing at the UBC Okanagan campus in the second year of the integrated program - Engineering Two - or transferring to the UBC Vancouver campus. Students who elect to transfer compete for program spaces with students at the UBC Vancouver campus.

[13598] Students who choose to continue their Engineering education at the UBC Okanagan campus will take the Engineering Two program, which is common to all specializations. Students

degree in Civil Engineering, Electrical Engineering, and Mechanical Engineering. ~~**Following entry from secondary school, the B.A.Sc. program generally requires four or five years to complete.**~~ Qualified applicants can be admitted directly from secondary school into Engineering One. Students may also enter the Engineering program after having successfully completed the equivalent of first-year Science.

[13596] The first-year Engineering One program is common to all Engineering disciplines and lays the foundation for Engineering specializations in subsequent years. Engineering One is equivalent to first-year Engineering at the UBC Vancouver campus. The engineering-specific curriculum emphasizes project-based team learning, and offers first-year students the opportunity to implement the principles of engineering in a second-term design project. Upon successful completion of Engineering One, students have the option of continuing at the UBC Okanagan campus in the second year of the integrated program - Engineering Two - or transferring to the UBC Vancouver campus. Students who elect to transfer compete for program spaces with students at the UBC Vancouver campus.

[13598] Students who choose to continue their Engineering education at the UBC Okanagan campus will take the Engineering Two program, which is common to all specializations. Students



will specialize in Civil Engineering, Electrical Engineering, or Mechanical Engineering in their third- and fourth-year programs.

[13597] Scheduled field trips and the activities of professional and technical societies complement the undergraduate programs, and students are expected to participate in them as fully as circumstances permit.

[13599] An optional Co-operative Education program, which integrates academic study with supervised work experience, is available during the second year.

Proposed Academic Calendar Entry:
[Homepage \(draft\) Faculties, Schools, and Colleges School of Engineering Bachelor of Applied Science Program](#)

Admission Requirements

Admission Requirements

[13600] Application for admission to the School of Engineering must be made through Enrolment Services. Procedures, policies, and admission requirements of UBC and the School of Engineering are specified in [Admissions](#).

[13601] Due to limited resources, the School has been authorized to restrict enrolment in Engineering One and within individual Engineering programs at the second-year level. Attainment of the minimum academic requirements listed below implies that the applicant is eligible

will specialize in Civil Engineering, Electrical Engineering, or Mechanical Engineering in their third- and fourth-year programs.

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[13599] An optional Co-operative Education program, which integrates academic study with supervised work experience, is available during the second year.

Draft Academic Calendar URL:
<http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,317,989,1183>

Present Academic Calendar Entry:
[Homepage \(draft\) Faculties, Schools, and Colleges School of Engineering Bachelor of Applied Science Program](#)

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for selection, but does not provide assurance of admission. The selection is based on academic standing. For most Engineering programs, the competition for places is such that standing above the minimum prescribed requirements is necessary to ensure admission.

[13602] Note: proficiency in mathematics is an important part of preparing for Engineering courses. Experience has shown that UBC students with grades below 65% in mathematics (below B at a college) are likely to have difficulty with many Engineering courses.

[13603] Admission from BC/Yukon Grade 12 (or equivalent)

[13604] In addition to satisfying University admission requirements, applicants must have completed mathematics, physics, and chemistry at the British Columbia Grade 12 level, or the equivalent. Students will be selected on the basis of their standing in Grade 12 courses in mathematics, chemistry, physics, and English. Applicants from schools where either Physics 12 or Chemistry 12 is not available may petition to be excused this deficiency.

[13605] Admission from a Post-Secondary Institution

[13606] Applicants from another faculty at UBC or another post-secondary institution may be considered for admission to the School of Engineering. An overall average of at least 65%, including any failed courses, is required. The overall average is calculated in accordance with the general admission requirement for undergraduate admission as specified in [Applicants from a College or University](#).

[13607] Applicants must also have an

for selection, but does not provide assurance of admission. The selection is based on academic standing. For most Engineering programs, the competition for places is such that standing above the minimum prescribed requirements is necessary to ensure admission.

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[13604] In addition to satisfying University admission requirements, applicants must have completed mathematics, physics, and chemistry at the British Columbia Grade 12 level, or the equivalent. Students will be selected on the basis of their standing in Grade 12 courses in mathematics, chemistry, physics, and English. Applicants from schools where either Physics 12 or Chemistry 12 is not available may petition to be excused this deficiency.

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[13607] Applicants must also have an



average of at least 70% in all chemistry, mathematics, and physics courses that transfer to the first-year Engineering program. Courses to be considered in this average of mathematics, chemistry, and physics courses are not limited to the last 30 credits only. Where two courses, or one repeated course, have been taken which transfer to one of the courses of the first-year engineering program, only the grade of the latest course will be used in calculating this average.

[15636] Admission to the Engineering program is competitive. Applicants who meet all of these criteria are not guaranteed admission.

[15637] Applicants with fewer than 24 transferable credits from a post-secondary institution are evaluated against both secondary and post-secondary admission criteria.

[15638] Applicants with more than 24 credits that transfer to first-year Engineering may be eligible for second-year Engineering. Advice on transfer credit is available from the School of Engineering. Deficiencies from first year must be completed prior to graduation.

[15639] Students admitted to second year must complete a Second-Year Program Preference Form by June 15.

[13608] Admission from UBC Engineering Transfer Programs

[13609] Students who have completed first-year Engineering at a college offering a UBC transfer program are eligible to be considered for admission to second-year Engineering provided that they have obtained an overall grade average of at

average of at least 70% in all chemistry, mathematics, and physics courses that transfer to the first-year Engineering program. Courses to be considered in this average of mathematics, chemistry, and physics courses are not limited to the last 30 credits only. Where two courses, or one repeated course, have been taken which transfer to one of the courses of the first-year engineering program, only the grade of the latest course will be used in calculating this average.

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[13609] Students who have completed first-year Engineering at a college offering a UBC transfer program are eligible to be considered for admission to second-year Engineering provided that they have obtained an overall grade average of at



least 65%.

**Admission from Okanagan College
 Bridge Programs to Civil,
 Electrical, or Mechanical
 Engineering**

**Students with a two-year diploma in
 Civil, Electronic, or Mechanical
 Engineering Technology from Okanagan
 College may be admitted to the second
 year of the B.A.Sc. program upon
 successful completion of the
 corresponding Okanagan College
 Engineering Bridge program.**

**Students must successfully complete an
 Engineering Technology program with a
 minimum graduating grade average of
 80%. Students must also successfully
 complete the corresponding Engineering
 Bridge program with a minimum grade
 of 60% in each course, and a minimum
 average of 70% in all courses other than
 University Writing (ENGL 100).**

**Admitted students will be required to
 take UBC Okanagan courses from a list
 provided by the School of Engineering to
 fulfill B.A.Sc. degree requirements.**

**Typically, students admitted from each
 Engineering Bridge program will
 require two and a half years of
 additional study at UBC Okanagan to
 complete B.A.Sc. degree requirements.**

**[15589] Admission from Camosun
 College Engineering Bridge
 Programs to Civil or Mechanical
 Engineering**

[15588] Students with a two-year diploma in Civil or Mechanical Technology may be admitted to the third year of the B.A.Sc. program in Civil Engineering or

least 65%.

**[15589] Admission from Camosun
 Bridging Program**

[15588] Students with a two-year diploma in Civil or Mechanical Technology may be admitted to the third year of the B.A.Sc. program in Civil Engineering or Mechanical Engineering upon successful



Mechanical Engineering upon successful completion of **an Engineering Bridge** program offered by Camosun College. **Students must achieve a minimum of 60% in each course and a minimum average of 65% on all courses to be considered for admission to the B.A.Sc. program.** Admitted students will be required to take additional UBC Okanagan campus courses from a list provided by the School of Engineering to fulfill B.A.Sc. degree requirements. Typically, students admitted from **a Camosun College Engineering Bridge** program will require two and a half years of additional study at the UBC Okanagan campus to complete the B.A.Sc. degree requirements.

[13610] Admission Following Two-Year Technology Diploma Programs Not Including Bridge Programs

[13611] Students are eligible to be considered for admission if they have completed an appropriate two-year technology diploma program with an overall average of at least 70%. Admission is normally into first-year Engineering, unless the student has completed an approved **Engineering bridge** program.

completion of **the Engineering bridging** program offered by Camosun College. Admitted students will be required to take additional UBC Okanagan campus courses from a list provided by the School of Engineering to fulfill B.A.Sc. degree requirements. Typically, students admitted from **the bridging** program will require two and a half years of additional study at the UBC Okanagan campus to complete the B.A.Sc. degree requirements.

[13610] Admission Following Two-Year Technology Diploma Programs

[13611] Students are eligible to be considered for admission if they have completed an appropriate two-year technology diploma program with an overall average of at least 70%. Admission is normally into first-year Engineering, unless the student has completed an approved **bridging** program **for entry into third-year Engineering**.

Type of Action: Revise program introduction; include new Academic Calendar entry for admission from the three Okanagan College Engineering Bridge programs to corresponding School of Engineering programs; clarify existing entry for the two Camosun College Engineering Bridge programs to Civil or Mechanical Engineering; clarify existing entry for admission following two-year technology diploma programs *not including bridge programs*.



Rationale: An Engineering Bridge Admission Agreement between UBC Okanagan and Okanagan College has been developed to allow students completing a diploma in Engineering Technology from Okanagan College to transfer into Engineering at UBC Okanagan. These students must first successfully complete a one-term Engineering Bridge program at Okanagan College, which will then allow the students to enter the corresponding UBC Okanagan Engineering program in Term 2 of second year.

For now, the GPA requirements set for students coming from Okanagan College are slightly higher than those from Camosun College; these can be revised after success of the bridge students is demonstrated in our programs since the formal Agreement between Okanagan College and UBCO contain provisions for annual reviews and the Agreement itself must be formally extended after three years.

This arrangement is modelled on the existing Engineering bridge programs we have for civil and mechanical engineering students from Camosun College except that students from Okanagan College enter the engineering program one term earlier (half way through 2nd year versus at the beginning of 3rd year).

THE UNIVERSITY OF BRITISH COLUMBIA**OKANAGAN SENATE SECRETARIAT
Enrolment Services
Senate and Curriculum Services**

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www.senate.ubc.ca

September 18, 2012

To: Okanagan Senate

From: Admissions and Awards Committee

Subject: Discontinuation of the Ph.D. Tuition Award and the International Partial Tuition Scholarship (approval)

The Admissions and Awards Committee has reviewed the material forwarded to it from the College of Graduate Studies and encloses the proposal it deems ready for approval.

As such, the following is recommended to Senate:

Motion: *That Senate discontinue the PhD. Tuition Award and the International Partial Tuition Scholarship as set out in the attached proposal, and forward notice of these discontinuances to the Board of Governors for approval.*

For the Committee
Dr. Spiro Yannacopoulos
Chair, Admissions and Awards Committee



Proposal Form – Okanagan Campus

<p>Faculty/School: College of Graduate Studies Department/Unit: N/A Faculty/School Approval Date: August 7, 2012 Effective Session: 2012W</p>	<p>Date: July 2012 Contact Person: Ms. Jennifer Cook Phone: 250.807.8180 Email: jennifer.cook@ubc.ca</p>
<p>Proposed Academic Calendar Entry: Homepage Faculties, Schools, and Colleges College of Graduate Studies Awards and Scholarships</p> <p>Awards and Scholarships</p> <p>Contents</p> <p>Introduction Merit-Based Awards External Awards</p> <p>Teaching and Research Assistantships Need-Based Awards for Graduate Students</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,285,1001,0</p> <p>Present Academic Calendar Entry: Homepage Faculties, Schools, and Colleges College of Graduate Studies Awards and Scholarships</p> <p>Awards and Scholarships</p> <p>Contents</p> <p>Introduction Merit-Based Awards External Awards Ph.D. Tuition Awards International Partial Tuition Scholarships Teaching and Research Assistantships Need-Based Awards for Graduate Students</p>



<p>Proposed Academic Calendar Entry: N/A</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,285,1001,1210</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Awards and Scholarships Ph.D. Tuition Awards</p> <p>Ph.D. Tuition Awards</p> <p>[13952] Note: the Ph.D. tuition awards policy is currently under review.</p>
<p>Proposed Academic Calendar Entry: N/A</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,285,1001,1211</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Awards and Scholarships International Partial Tuition Scholarships</p> <p>International Partial Tuition Scholarships</p> <p>[15932] Note: the International Partial Tuition Scholarship policy is currently under review.</p> <p>[13953] International graduate students are eligible for an International Partial Tuition Scholarship of up to \$3,338.08[†], which is applied to assist with their tuition fees if they are registered full-time in master's programs or in the fifth or later years of doctoral programs that</p>



~~assess tuition fees of \$7,200.00¹ per year.~~

~~[13955] Students in the following master's programs in the Faculty of Education are eligible for the following amounts:~~

~~[13954]~~

- ~~• Master of Arts in Education, \$1,678.74¹;~~
- ~~• Master of Education, \$1,678.74¹.~~

~~[13956] Students are eligible as long as they are not recipients of external scholarships or external funding that pays their tuition. Some graduate programs may offer additional money toward the International Partial Tuition Scholarship. Students should contact their graduate program for more information. Further details can be found at [Fees](#).~~

~~[13957] International students in eligible programs are automatically considered for this scholarship by the College of Graduate Studies each year and do not need to apply.~~

~~[14403]¹ Official scholarship amounts for the 2012/13 session are not available at this time. Please check back regularly for updates.~~

Type of Action: Strike all references to the Ph.D. Tuition Award and International Partial Tuition Scholarships.

Rationale: The PhD Tuition Award and International Partial Tuition Scholarship are being rolled into funding initiatives that place an emphasis on academic excellence and enables graduate studies to respond more effectively to student needs.

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September 18, 2012

To: Okanagan Senate
From: Admissions and Awards Committee
Subject: New Award (approval)

The Admissions and Awards Committee is pleased to recommend the following:

Motion: *That Senate accept the new award as listed and forward it to the Board of Governors for approval; and that a letter of thanks be sent to the donor.*

YAWNEY Family Varsity Athletics Award

One or more awards, which may range in value from \$500 each to the maximum allowable under athletic association regulations, are offered by Michael Yawney and family to members of any varsity team entering first year with preference given to students who have graduated from a high school in School District 22 (Vernon) or School District 83 (North Okanagan Shuswap). Awards are made on the recommendation of the Athletics and Recreation Department at The University of British Columbia, Okanagan campus, to outstanding students who have demonstrated excellent leadership skills and maintained good academic standing. (First awards available for the 2012/13 Winter Session)

Previously-Approved Awards with Changes in Terms or Funding Source:
None

For the Committee
Dr. Spiro Yannacopoulos
Chair, Admissions and Awards Committee

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September 18, 2012

To: Okanagan Senate

From: Curriculum Committee

Subject: September Curriculum Proposals (approval)

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

As such, the following is recommended to Senate:

Motion: That Senate approve the new and revised courses, the revised program, and the new academic policy brought forward from the Faculties of Arts and Sciences, Education, Health and Social Development, and Management as set out in the attached proposals.

For the Committee,
Dr. Dwayne Tannant
Chair, Curriculum Committee

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September 18, 2012

To: Okanagan Senate

From: Curriculum Committee

Subject: September Curriculum Proposals (approval)

Enclosed please find the following for your consideration:

From the Faculty of Arts and Science

1. The following revised courses:
 - a. BIOC 403 (3) Enzymology/CHEM 403 (3) Enzymology

From the Faculty of Education

2. The following revised program:
 - a. College of Graduate Studies, Education (M.Ed., M.A): Program Overview, Degree Routes, Program Requirements; Course Offerings
3. The following new courses:
 - a. CUST 563 (3) Conceptualizing Curriculum Studies: Theory and Research
 - b. CUST 564 (3) Curriculum for Sustainability
 - c. CUST 565 (3) Curriculum Studies in Diverse Settings
 - d. EADM 557 (3) Leadership for Inclusion and Social Justice
 - e. EADM 558 (3) Leadership for Sustainability
 - f. EDUC 501 (3) Research Methodology in Education Part II
 - g. EDUC 524 (3) Language Teaching and Learning
 - h. EDUC 527 (3) Global Education, Citizenship, and Cross-Cultural Conceptions of Teaching and Learning
 - i. EDUC 528 (3) Theory and Practice in Inclusive Education
 - j. ETEC 557 (3) Instructional Strategies for Digital Learning

From the Faculty of Health and Social Development

4. The following new courses:
 - a. HMKN 495 (3/6) d Special Topics in Health and Exercise Sciences

Faculty of Management

5. The following academic regulations:
 - a. Master of Management (M.M.): Academic Progress, Withdrawal



a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form Change to Courses – Okanagan Campus

Category: 1

<p>Faculty/School: Arts and Sciences Department/Unit: Unit 3: Chemistry Faculty/School Approval Date: August 7, 2012 Effective Session: 2012W</p>	<p>Date: May 8, 2012 Contact Person: Dr. W. Stephen McNeil Phone: 250.807.8751 Email: s.mcneil@ubc.ca</p>
<p>Proposed Academic Calendar Entry:</p> <p>BIOC 403 (3) Enzymology <u>Enzyme kinetics: steady-state kinetic analyses, fast-reaction methods, kinetic isotope effects. Catalytic mechanisms: coenzymology, radical-mediated reactions, catalytic rate enhancements. Special topics: enzyme evolution, multifunctional enzymes, biocatalysis, protein engineering.</u> Credit will not be granted for <u>more than one of BIOC 403, CHEM 403, CHEM 413.</u> [3-0-0] <i>Prerequisite:</i> <u>One of</u> CHEM 204, <u>CHEM 214.</u> <i>Equivalency:</i> <u>CHEM 403.</u></p> <p>CHEM 403 (3) Enzymology <u>Enzyme kinetics: steady-state kinetic analyses, fast-reaction methods, kinetic isotope effects. Catalytic mechanisms: coenzymology, radical-mediated reactions, catalytic rate enhancements. Special topics: enzyme evolution, multifunctional enzymes, biocatalysis, protein</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>BIOC 403 (3) Enzymology Aspects of protein structure, stability, folding, and molecular modelling. Results from X-ray crystallography, solution thermodynamics, NMR, computer graphics, and protein engineering. Theory and application of steady-state and transient kinetics to the study of enzymes, enzyme systems, and cellular regulation. Credit will not be granted for both BIOC 403 and CHEM 413. [3-0-0] <i>Prerequisite:</i> CHEM 204. <i>Equivalency:</i> CHEM 413.</p> <p>CHEM 413 (3) Mechanistic Enzymology Chemistry of cofactors, biosynthetic transformations, molecular synthesis, transformation and degradation, natural product biosynthesis. Credit will not be granted for both CHEM 413 and BIOC 403. [3-0-0] <i>Prerequisite:</i> One of CHEM 204,</p>

<p><u>engineering.</u> Credit will not be granted for <u>more than one of CHEM 403, CHEM 413, BIOC 403.</u> [3-0-0] <i>Prerequisite:</i> One of CHEM 204, CHEM 214. <i>Equivalency:</i> BIOC 403.</p>	<p>CHEM 214. <i>Equivalency:</i> BIOC 403.</p> <p>Type of Action:</p> <ul style="list-style-type: none">• Change course description and course prerequisites for BIOC 403.• Change course description, course title, and course number for CHEM 413. <p>Rationale: The course descriptions, prerequisites, and titles are currently inconsistent between CHEM 413 and BIOC 403, which are equivalent courses taught simultaneously, and the present course descriptions do not accurately represent the current course content.</p> <p>The course has evolved and new Academic Calendar course descriptions are being established to better match the list of topics as they are currently taught.</p> <p>The new CHEM 214 can act as a prerequisite equivalent to CHEM 204 for the BIOC version of the course.</p> <p>The course has grown sufficiently distinct from CHEM 413 as taught in Vancouver that a different course number is now appropriate.</p>
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THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form Change to Program – Okanagan Campus

Category: 1

<p>Faculty/School: Faculty of Education Department/Unit: N/A Faculty Approval Date: May 16, 2012 Effective Session: 2013W</p>	<p>Date: March 20, 2012 Contact Person: Lindsay Peruniak Phone: 250.807.8203 Email: lindsay.peruniak@ubc.ca</p>
<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Education Program Overview</p> <h3>Program Overview</h3> <p>[12135]</p> <p>Degrees Offered: M.Ed., M.A.</p> <p>[12136] Graduate offerings in Education provide opportunities for educators to further develop specialized areas of interest and integrate their practice and understandings within a framework of educational research and inquiry.</p> <p><u>Programs are designed for school teachers, subject area coordinators, educational administrators, and educators in non-school settings.</u></p> <p>[13917] The master's degree program is comprised of core courses and courses within thematic areas. It is designed so that students receive foundational instruction in general education and</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,285,897,1052</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Education Program Overview</p> <h3>Program Overview</h3> <p>[12135]</p> <p>Degrees Offered: M.Ed., M.A.</p> <p>[12136] Graduate offerings in Education provide opportunities for school teachers, subject area coordinators, educational administrators, and educators in non-school settings to further develop specialized areas of interest and integrate their practice and understandings within a framework of educational research and inquiry.</p> <p>[13917] The master's degree program is comprised of core courses, sets of specialization courses, and elective courses. It is designed so that students receive foundational instruction in general</p>

curriculum theory, **and the opportunity to personalize their learning by focusing inquiry within and across thematic areas. Students are encouraged** to undertake studies within the context of their professional careers.

The M.Ed. is typically completed as a part-time program. The M.A. can be completed on either a part-time or full-time basis.

[13918] The College of Graduate Studies offers two master's degree routes that support a broad range of qualitative and quantitative approaches. The program culminates with a completion of a project (M.Ed.) or thesis (M.A.).

education and curriculum theory, ~~but also are afforded opportunities to focus inquiry in specialized areas of interest. Structure and program schedule allow students~~ to undertake studies within the context ~~and parameters~~ of their professional careers (~~the degree can be completed on a part-time basis~~).

[13918] The College of Graduate Studies offers two master's degree routes that support a broad range of qualitative and quantitative approaches. The program culminates with a completion of a project/~~portfolio~~ (M.Ed.) or thesis (M.A.).

<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Education Degree Routes</p> <p>Degree Routes</p> <p>[12137] Master of Education (M.Ed.)</p> <p>[12138] The M.Ed. degree is designed primarily for educators who wish to gain more knowledge and expertise and who intend to return to their professional careers upon completion of the degree.</p> <p>[12139] Master of Arts in Education (M.A.)</p> <p>[12140] The M.A. is designed for those students who, in addition to their interest in a thematic area of study, wish to develop their expertise as educational researchers.</p> <p>[14601] Note: students who feel that they might, at some future date, be interested in enrolling in a doctoral program are advised to follow the M.A. route rather than the M.Ed. route.</p> <p>[15069] Graduate Certificates in Education</p> <p>[15070] Graduate Certificates are designed for specialists who wish to expand their subject matter content and enhance their professional qualifications through completion of graduate-level courses. Coursework completed in a Graduate</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,285,897,1053</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Education Degree Routes</p> <p>Degree Routes</p> <p>[12137] Master of Education (M.Ed.)</p> <p>[12138] The M.Ed. degree is designed primarily for practicing teachers who wish to gain more knowledge and expertise in a specialized area of study and who intend to return to their professional careers upon completion of the degree.</p> <p>[12139] Master of Arts in Education (M.A.)</p> <p>[12140] The M.A. is designed for those students who, in addition to their interest in a specialized area of study, wish to develop their expertise as educational researchers.</p> <p>[14601] Note: students who feel that they might, at some future date, be interested in enrolling in a doctoral program are advised to follow the M.A. route rather than the M.Ed. route.</p> <p>[15069] Graduate Certificates in Education</p> <p>[15070] Graduate Certificates are designed for specialists who wish to expand their subject matter content and enhance their professional qualifications through completion of graduate-level courses. Coursework completed in a Graduate</p>
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Certificate program may be applied toward an M.A. or M.Ed. degree.

Proposed Academic Calendar Entry:
[Homepage \(draft\) Faculties, Schools, and Colleges College of Graduate Studies Education](#)
 Program Requirements

Program Requirements

[15071] M.Ed. and M.A. Program Requirements

[12141] Both the M.Ed. and M.A. degrees are 30-credit programs.

The M.Ed. is typically completed as a part-time program. Students are encouraged to complete the coursework over two academic years, including summer sessions. Continuing fees will be assessed after three years. **M.Ed. students are required to complete the degree within four years.**

To be recommended for an **M.Ed.** degree, students must complete the following:

[12142]

- **9 credits of core courses: CUST 562, EDUC 500, and EDUC 521;**
- **15 credits from one or more thematic areas (may also include EDUC 501);**
- **EDUC 598 (3 credits); and**
- **3 credits of an approved elective.**

The M.A. can be completed on either a part-time or full-time basis. Students are

Certificate program may be applied toward an M.A. or M.Ed. degree.

Draft Academic Calendar URL:
<http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,285,897,1054>

Present Academic Calendar Entry:
[Homepage \(draft\) Faculties, Schools, and Colleges College of Graduate Studies Education](#)
 Program Requirements

Program Requirements

[15071] M.Ed. and M.A. Program Requirements

[12141] Both the M.Ed. and M.A. degrees are 30-credit programs ~~that can be completed on a part-time basis. There is no residency requirement. These are cohort programs and students~~ are encouraged to complete the coursework over two academic years, including summer sessions. Continuing fees will be assessed after three years. ~~A time limit of four years applies to M.Ed. degree completion. M.A. students are required to complete the degree within five years.~~ To be recommended for a degree, students must complete the following:

[12142]

- ~~three~~ core courses;
- ~~four specialization courses;~~
- ~~two~~ ~~electives in the M.Ed. route,~~ ~~or one elective in the M.A. route;~~ ~~and~~
- ~~one~~ ~~exit seminar, either project/portfolio-based (M.Ed.) or thesis-based (M.A.).~~

encouraged to complete the coursework over two academic years, including summer sessions. Continuing fees will be assessed after three years. M.A. students are required to complete the degree within five years.

To be recommended for an M.A. degree, students must complete the following:

- **9 credits of core courses: CUST 562, EDUC 500, and EDUC 521;**
- **15 credits from one or more thematic areas (may also include EDUC 501); and**
- **EDUC 599 (6 credits).**

[12143] Course selection is made in consultation with a student's supervisor.

Courses at the 400- or 500- level may stand as an elective with approval from the student's supervisor and the Director of Graduate Programs within the Faculty of Education.

[15072] Graduate Certificate Program Requirements

[15073] The Graduate Certificate is a 15-credit program that can be completed on a part-time basis. To be recommended for the Graduate Certificate, students must complete 15 credits from one or more thematic areas (see [Course Offerings](#)). **Course selection is done in consultation with the Director of Graduate Programs in Education.**

~~**[12143] The Faculty offers a range of educational electives; however, students may also take, as electives, courses in graduate specializations other than the one in which they are enrolled (if space in the course permits). Additionally, any 400- or 500-level course may stand as an elective with approval from the Dean of the Faculty of Education.**~~

[15072] Graduate Certificate Program Requirements

[15073] The Graduate Certificate is a 15-credit program that can be completed on a part-time basis. To be recommended for the Graduate Certificate, students must complete the following:

[15074]

- ~~**four specialization courses**~~ (see [Course Offerings](#));
- ~~**one approved elective.**~~

~~**[15075] Note: currently the Graduate Certificate is only available in Educational Leadership and**~~

	<p>Administration.</p> <p>Type of Action: Revise program: M.Ed. and M.A. students identify thematic area(s) for study and select courses within or across four thematic areas.</p> <p>Rationale: Existing areas of specialization have been recast as thematic areas of study.</p> <p>In the existing program, our largest enrolment is in Teaching and Learning. The revised program increases our elective offerings and includes diversity as a theme within the program. It also informs what will be offered within our post-baccalaureate programs.</p> <p>In addition, this revised program structure provides an increase in student and faculty flexibility and the opportunity for personalized programs without the current concerns of specialization structures. The proposed thematic approach is consistent with current trends in Education that recognize the value of interdisciplinary study within the field and across multiple domains. For example, a student might wish to be an educational leader within the field of Digital Learning or Diversity and gain expertise within Curriculum Design.</p> <p>Practically, students will be required to state their thematic interests in advance and this information will help determine course offerings and workload planning.</p> <p>Significant to this program design:</p> <ul style="list-style-type: none"> • Conceptualization courses introduce each thematic area. • Students may take courses in one thematic area or across several. All choices regarding course selection are made in consultation with the student's supervisor. • Unique electives can be offered during the Summer Institute in Education Program that support
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	<p>thematic demands and invite leading researchers / scholars.</p> <ul style="list-style-type: none">• The M.Ed. exit project is completed during the EDUC 598 course, building on work completed during the program. EDUC 598 provides the opportunity for two faculty readers of each project (the instructor and the supervisor). <p>This proposed change will help the Faculty of Education address issues such as low enrolment in some specializations which result in untimely stream cancellations and the need for directed studies. This situation adversely impacts student satisfaction with the program and faculty workloads.</p>
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Curriculum Proposal Form Change to Program – Okanagan Campus

Category: 1

<p>Faculty/School: Faculty of Education Department/Unit: N/A Faculty Approval Date: May 16, 2012 Effective Session: 2013W</p>	<p>Date: March 20, 2012 Contact Person: Lindsay Peruniak Phone: 250.807.8203 Email: lindsay.peruniak@ubc.ca</p>																						
<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Education Course Offerings</p> <h3>Course Offerings</h3> <p>[12147]</p> <table border="0"> <thead> <tr> <th>Core Courses</th> <th>Credits</th> </tr> </thead> <tbody> <tr> <td>CUST 562 Curriculum Issues and Theories</td> <td>3</td> </tr> <tr> <td>EDUC 500 Research Methodology in Education Part 1</td> <td>3</td> </tr> <tr> <td>EDUC 521 Readings and Discourse in Education</td> <td>3</td> </tr> </tbody> </table> <p>[12148]</p> <table border="0"> <thead> <tr> <th><u>Thematic Area: Studies in Diversity</u></th> <th>Credits</th> </tr> </thead> <tbody> <tr> <td><u>EDUC 524 Language Teaching and Learning</u></td> <td><u>3</u></td> </tr> </tbody> </table>	Core Courses	Credits	CUST 562 Curriculum Issues and Theories	3	EDUC 500 Research Methodology in Education Part 1	3	EDUC 521 Readings and Discourse in Education	3	<u>Thematic Area: Studies in Diversity</u>	Credits	<u>EDUC 524 Language Teaching and Learning</u>	<u>3</u>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/pr_oof/edit/index.cfm?tree=18,285,897,1056</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges College of Graduate Studies Education Course Offerings</p> <h3>Course Offerings</h3> <p>[12147]</p> <table border="0"> <thead> <tr> <th>Core Courses</th> <th>Credits</th> </tr> </thead> <tbody> <tr> <td>CUST 562 Introduction to Curriculum Issues and Theories</td> <td>3</td> </tr> <tr> <td>EDUC 500 Research Methodology in Education</td> <td>3</td> </tr> <tr> <td>EDUC 521 Readings and Discourse in Education:</td> <td>3</td> </tr> </tbody> </table> <p>Specialized Studies</p> <p>[12148]</p> <table border="0"> <thead> <tr> <th>Specialization: Teaching and Learning</th> <th>Credits</th> </tr> </thead> </table>	Core Courses	Credits	CUST 562 Introduction to Curriculum Issues and Theories	3	EDUC 500 Research Methodology in Education	3	EDUC 521 Readings and Discourse in Education:	3	Specialization: Teaching and Learning	Credits
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EDUC 526 Education and Diversity	3	EDST 592 Conceptions of Teaching and Learning	3
<u>EDUC 527 Global Education, Citizenship, and Cross-Cultural Conceptions of Teaching and Learning</u>	<u>3</u>	EDUC 523 Assessment of Learning	3
<u>EDUC 528 Theory and Practice in Inclusive Education</u>	<u>3</u>	EDUC 526 Education and Diversity	3
<u>Thematic Area: Studies in Educational Leadership and Policy</u>		EDUC 529 Building Communities: Education Beyond the Classroom	3
EADM 554 Policy <u>and Education</u>	3		
EADM 556 <u>Conceptualizing Leadership</u>	3	Specialization: Educational Leadership and Administration	
<u>EADM 557 Leadership for Inclusion and Social Justice</u>	<u>3</u>	EADM 554 Administration and Education Policy	3
<u>EADM 558 Leadership for Sustainability</u>	<u>3</u>	EADM 555 Educational Finance	3
<u>EADM 582 Leadership for Change: Systems, Innovation, and Reform</u>	<u>3</u>	EADM 556 Leadership and Administration of Educational Programs	3
<u>Thematic Area: Studies in Digital Learning</u>			
ETEC 511 <u>Conceptualizing Educational Technology</u>	3	EADM 582 The Study of Organizations in the Educational Context	3
ETEC 550 <u>Designing</u>	3	Specialization: Educational Technology	
		EETC 511 Foundations of Educational Technology	3
		EETC 550 Instructional	3

<p><u>Instruction</u></p> <p>ETEC 553 <u>Leading and Managing Educational Technology Innovation</u> 3</p> <p><u>ETEC 557 Instructional Strategies for Digital Learning</u> 3</p> <p><u>ETEC 559 Creating ICT-Enhanced Learning Environments</u> 3</p> <p><u>Thematic Area: Studies in Curriculum</u></p> <p><u>CUST 563 Conceptualizing Curriculum Studies: Theory and Research</u> 3</p> <p><u>CUST 564 Curriculum for Sustainability</u> 3</p> <p><u>CUST 565 Curriculum Studies in Diverse Settings</u> 3</p> <p><u>EDST 592 Conceptions of Teaching and Learning</u> 3/6 d</p> <p>Education Electives</p> <p><u>EADM 555 Educational Finance</u> 3</p> <p>EDST 588 Environmental Philosophy and Environmental Education 3</p> <p><u>EDUC 501 Research Methodology in Education Part II</u> 3</p> <p>EDUC 517 Contemporary Issues in Education 3/6 d</p>	<p><u>Design: Theory and Practice</u></p> <p>ETEC 553 Technology and Leadership 3</p> <p>ETEC 556 Educational Technology and Converging Media 3</p> <p>Additional Education Electives (M.Ed.: two electives; M.A.: one elective)</p> <p>EDST 588 Environmental Philosophy and Environmental Education 3</p> <p>EDUC 517 Contemporary 3</p>
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<p><u>EDUC 523 Assessment for Learning</u> 3</p> <p><u>EDUC 529 Building Communities: Education Beyond the Classroom</u> 3</p> <p>EDUC 530 Educating for Humanity: Citizenship through Service Learning 3</p> <p>EDUC 531 Educational Governance 3</p> <p><u>ETEC 556 Educational Technology and Converging Media</u> 3</p> <p><u>Senior</u> Seminars (students prepare only one depending on degree route)</p> <p>EDUC 598 M.Ed. Senior Seminar with Project 3</p> <p>EDUC 599 M.A. Senior Seminar with Thesis 6</p> <p>[15159] Note: not all courses are offered every year. Students should contact the Faculty of Education for current graduate courses.</p>	<p>Issues in Education</p> <p>EDUC 530 Educating for Humanity: Citizenship through Service Learning 3</p> <p>EDUC 531 Educational Governance 3</p> <p>EETC 559 Information and Communications Technology (ICT) and the New Learning 3</p> <p>Exit Seminars (students prepare only one depending on degree route)</p> <p>EDUC 598 M.Ed. Senior Seminar with Portfolio/Project 3</p> <p>EDUC 599 M.A. Senior Seminar with Thesis 6</p> <p>[15159] Note: not all program specializations are offered every year. Students should contact the Faculty of Education for current graduate program offerings.</p> <p>Type of Action and Rationale: Revise course list to reflect program revisions, new and revised courses.</p>
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THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty/School: Faculty of Education Department/Unit: N/A Faculty Approval Date: May 16, 2012 Effective Session: 2013W</p>	<p>Date: April 23, 2012 Contact Person: Lindsay Peruniak Phone: 250.807.8203 Email: lindsay.peruniak@ubc.ca</p>
<p>Proposed Academic Calendar Entry:</p> <p><u>CUST 563 (3) Conceptualizing Curriculum Studies: Theory and Research</u></p> <p><u>Facilitates an understanding of curriculum from a historical and contemporary perspective. Epistemological and ontological dimensions will be considered with a focus on discourses within the Canadian context.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: This course sets the foundation for the thematic area of Studies in Curriculum. It provides the theoretical underpinnings for the area and introduces students to curriculum as a discipline of study.</p>



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<p>Proposed Academic Calendar Entry:</p> <p><u>CUST 564 (3) Curriculum for Sustainability</u> <u>Focus on curriculum discourse central to ecological and social justice.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: This course supports the sustainability pillar of the University. It links educational practices with the field of sustainability as related to teaching and learning.</p>



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<p>Proposed Academic Calendar Entry:</p> <p><u>CUST 565 (3) Curriculum Studies in Diverse Settings</u> <u>Explores curriculum study in design, implementation, and evaluation for contemporary pedagogical settings. Among other topics, focus will be on curriculum that addresses diverse learning and diverse settings.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: This course provides a curriculum option for students in the Studies in Diversity theme. It links issues of inclusion and diversity to curriculum design and development.</p>



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<p>Proposed Academic Calendar Entry:</p> <p><u>EADM 557 (3) Leadership for Inclusion and Social Justice</u> <u>An overview of the theoretical and practical elements of leadership for inclusive education, social justice, and other associated topics.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: This course introduces students to issues of inclusion and social justice offering insights into policy and leading change in the field. It can be taken by students in Educational Leadership and Diversity. Students in other thematic areas might consider this course as an option.</p>



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<p>Proposed Academic Calendar Entry:</p> <p><u>EADM 558 (3) Leadership for Sustainability</u> <u>Applies the theoretical elements of sustainability through a focus on the practical aspects of leadership for sustainability in education and the broader society.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: This course introduces students to sustainability as a responsibility of educational leaders. It supports the sustainability pillar of the University and the strategic plan of the Faculty of Education.</p>



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<p>Proposed Academic Calendar Entry:</p> <p><u>EDUC 501 (3) Research Methodology in Education Part II</u> <u>Seminar examining specific issues, methods, and techniques used in educational research. Consideration is given to individual student's research interests. Research strategies and techniques and the selection of research questions appropriate to thesis topics will guide the course design.</u> <u>Prerequisite: EDUC 500 recommended.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: A continuation of EDUC 500: thesis-based students were not getting enough exposure to research methodology as required. EDUC 500 is a survey course that did not offer enough in depth methodology to support thesis students.</p>



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<p>Proposed Academic Calendar Entry:</p> <p><u>EDUC 524 (3) Language Teaching and Learning</u> <u>Intended for a broad cross-section of educators with varying experiences in language teaching and learning, this course conceptualizes additional and official language acquisition from multiple angles in child, adolescent, and adult contexts. Key issues, concepts, and theoretical perspectives are evaluated and explored with emphasis on current empirical research.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: This course prepares educators to work with additional language learners. It is grounded in core research in the field and is a timely addition to our graduate program.</p>



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Category: 1

<p>Faculty/School: Faculty of Education Department/Unit: N/A Faculty Approval Date: May 16, 2012 Effective Session: 2013W</p>	<p>Date: April 23, 2012 Contact Person: Lindsay Peruniak Phone: 250.807.8203 Email: lindsay.peruniak@ubc.ca</p>
<p>Proposed Academic Calendar Entry:</p> <p><u>EDUC 527 (3) Global Education, Citizenship, and Cross-Cultural Conceptions of Teaching and Learning</u> <u>Enables learners to explore the inherent values, assumptions, and ideologies that inform the spectrum of global educations and cross-cultural conceptions of teaching and learning, and examines understandings of these complex and contested notions.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: At a time of increasing globalization it is critical for educators to understand the scope and depth of the changing views of citizenship and cross-cultural understanding. This course supports the pillars of the University and the strategic plan of the Faculty of Education.</p>



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Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty/School: Faculty of Education Department/Unit: N/A Faculty Approval Date: May 16, 2012 Effective Session: 2013W</p>	<p>Date: April 23, 2012 Contact Person: Lindsay Peruniak Phone: 250.807.8203 Email: lindsay.peruniak@ubc.ca</p>
<p>Proposed Academic Calendar Entry:</p> <p><u>EDUC 528 (3) Theory and Practice in Inclusive Education</u> <u>An inquiry-oriented course designed for educators interested in inclusive aspects of special education. Participants will explore pedagogical, attitudinal, and systemic barriers to inclusion. Related theory and research-based inclusive approaches will serve as resources for individual and group inquiries.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course.</p> <p>Rationale: Addresses a need in the area of Inclusive Education at the graduate level. This course would be a foundational course for graduate students interested in Inclusive Education and diversity studies.</p>



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Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty/School: Faculty of Education Department/Unit: N/A Faculty Approval Date: May 16, 2012 Effective Session: 2013W</p>	<p>Date: April 23, 2012 Contact Person: Lindsay Peruniak Phone: 250.807.8203 Email: lindsay.peruniak@ubc.ca</p>
<p>Proposed Academic Calendar Entry:</p> <p><u>ETEC 557 (3) Instructional Strategies for Digital Learning</u> <u>Advanced topics in instructional design and project management.</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry:</p> <p>Type of Action: New course</p> <p>Rationale: To support a new cohort of online / virtual educators we need an advanced course in instructional design.</p> <p>A focus on instructional design and project management is consistent with our development of the proposed Innovative Learning Centre (ILC).</p>



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Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty: Health and Social Development School: School of Health and Exercise Sciences Faculty/School Approval Date: August 10, 2012 Effective Session: 2012W</p>	<p>Date: August 2012 Contact Person: Dr. Paul van Donkelaar Phone: 250.807.8858 Email: paul.vandonkelaar@ubc.ca</p>
<p>Proposed Academic Calendar Entry:</p> <p><u>HMKN 495 (3/6) d Special Topics in Health and Exercise Sciences</u> <u>[3-0-0]</u> <u>Prerequisite: Third-year standing and permission of the School of Health and Exercise Sciences.</u></p>	<p>Draft Academic Calendar URL: N/A Present Academic Calendar Entry: N/A</p> <p>Type of Action: New course.</p> <p>Rationale: The content comprising this course will vary each time it is offered. This will provide flexibility in scheduling depending upon student needs and instructor availability and expertise.</p>



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Curriculum Proposal Form Change to Program – Okanagan Campus

Category: 1

<p>Faculty/School: Management Department/Unit: N/A Faculty/School Approval Date: July 12, 2012 Effective Session: 2012W</p>	<p>Date: July 2012 Contact Person: Dr. Spiro Yannacopoulos Phone: 250.807.9511 Email: spiro.yannacopoulos@ubc.ca</p>
<p>Proposed Academic Calendar Entry: <u>Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program</u></p> <p><u>Master of Management Program</u></p> <p><u>Contents</u></p> <p><u>Program Overview</u> → <u>Admission</u> → <u>Requirements</u> → <u>Degree Requirements</u> → <u>Academic Regulations</u> → <u>Contact Information</u> →</p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry: N/A</p>

<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program Program Overview</p> <p><u>Program Overview</u></p> <p>[15526] <i>Degree offered: M.M.</i></p> <p>[15527] The Master of Management (M.M.) offered by the Faculty of Management provides a general foundation in business and management to individuals with bachelor's degrees in non-business disciplines. The M.M. program is designed to build upon a non-business undergraduate education to increase career options and accelerate advancement opportunities.</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,1042,0</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program</p> <p>Master of Management Program</p> <p>[15526] <i>Degree offered: M.M.</i></p> <p>[15527] The Master of Management (M.M.) offered by the Faculty of Management provides a general foundation in business and management to individuals with bachelor's degrees in non-business disciplines. The M.M. program is designed to build upon a non-business undergraduate education to increase career options and accelerate advancement opportunities.</p> <p>[...]</p>
<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program Admission Requirements</p> <p><u>Admission Requirements</u></p> <p>[...]</p> <p>[15528] Those with undergraduate degrees in Management, Commerce, or Business Administration, or those with degrees in other areas with a minor in Management, Commerce, or Business Administration,</p>	<p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,1042,0</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program</p> <p>[...]</p> <p>[15528] Those with undergraduate degrees in Management, Commerce, or Business Administration, or those with degrees in other areas with a minor in Management, Commerce, or Business Administration,</p>

are not eligible to apply.

[15529] The selection process is guided by the following criteria:

[15530]

1. Academic Achievement

Candidates are recruited from diverse academic backgrounds. A four-year bachelor's degree or equivalent from a UBC-recognized institution is required. Admission requirements include all the minimum admission requirements for the College of Graduate Studies. Candidates must have a solid academic record (a minimum of B+ or equivalent) and a competitive GMAT or GRE score or completed coursework that demonstrates the required quantitative knowledge and background. A minimum internet-based TOEFL score of 100 (or equivalent) is required for international applicants who earned their bachelor's degree from a university at which English was not the official language of instruction.

2. Experience, Innovation, and Motivation

The M.M. program is considered a "pre-experience" graduate business degree. Therefore, work experience is not required for admission to the program. The M.M. admissions committee evaluates applications using broad-based admission criteria where information about activities and achievements outside of the classroom is used in addition to academic performance to select qualified applicants. Applicants should provide evidence of and detail on any work, volunteer, international, and extracurricular experience they have in the resumé and application essays that

are not eligible to apply.

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1. Academic Achievement

Candidates are recruited from diverse academic backgrounds. A four-year bachelor's degree or equivalent from a UBC-recognized institution is required. Admission requirements include all the minimum admission requirements for the College of Graduate Studies. Candidates must have a solid academic record (a minimum of B+ or equivalent) and a competitive GMAT or GRE score or completed coursework that demonstrates the required quantitative knowledge and background. A minimum internet-based TOEFL score of 100 (or equivalent) is required for international applicants who earned their bachelor's degree from a university at which English was not the official language of instruction.

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<p>comprise the application submission. The admissions committee will use this information to assess an applicant's leadership potential, maturity, and professional aspirations.</p> <p>[15531] Upon accepting an offer of admission to the M.M. program, students are required to pay a non-refundable deposit which is applied to the first instalment of tuition fees.</p> <p>[...]</p> <p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program Degree Requirements</p> <p><u>Degree Requirements</u></p> <p>The M.M. program is cohort based and requires ten continuous months of full-time study to complete. It includes 33 Management credits at the graduate level.</p>	<p>comprise the application submission. The admissions committee will use this information to assess an applicant's leadership potential, maturity, and professional aspirations.</p> <p>[15531] Upon accepting an offer of admission to the M.M. program, students are required to pay a non-refundable deposit which is applied to the first instalment of tuition fees.</p> <p>[...]</p> <p>Draft Academic Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,1042.0</p> <p>Present Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program</p> <p>[...]</p> <p>[15532] Degree Requirements</p> <p>[15533] The M.M. program is cohort based and requires ten continuous months of full-time study to complete. It includes 33 Management credits at the graduate level.</p> <p>[...]</p>
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<p>Proposed Academic Calendar Entry: Homepage (draft) Faculties, Schools, and Colleges Faculty of Management Master of Management Program <u>Academic Regulations</u></p> <p><u>Academic Regulations</u></p> <p><u>Academic Progress</u></p> <p><u>The progress of all students working toward the Master of Management degree will be reviewed regularly. A student may be required to withdraw if progress has not been satisfactory.</u></p> <p><u>The Master of Management program defines Fail as below 60% and a Pass as 60% or greater.</u></p> <ul style="list-style-type: none"> • <u>Students in the Master of Management program must achieve a minimum of 68% in all courses to be considered in good standing.</u> • <u>A student who earns any course grade below 68% will receive a letter from the Master of Management program office cautioning that they are at academic risk and outlining requirements to continue in the program (see Grading Practices <link to http://www.calendar.ubc.ca/okanagan/index.cfm?tree=3,41,90,1014>).</u> <p><u>Withdrawal</u></p> <p><u>Students in the Master of Management program will be required to withdraw if their academic achievement falls below minimum requirements. A student will</u></p>	<p>Draft Academic Calendar URL: N/A</p> <p>Present Academic Calendar Entry: N/A</p>
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normally be required to withdraw if they have earned:

- **more than 3 credits with grades below 60%; or**
- **3 credits with grades below 60% and more than 4.5 credits with grades in the 60-67% range; or**
- **1.5 credits with grades below 60% and more than 6 credits with grades in the 60-67% range;**
or
- **more than 9 credits with grades in the 60-67% range.**

Note: the Master of Management program includes 33 credits of study, which consists of 22 course modules of 1.5 credits each.

Students who do not write the final exam or complete course requirements will receive “did not write” (DNW) on their transcript and an F standing in the course.

Proposed Academic Calendar Entry:
[Homepage \(draft\) Faculties, Schools, and Colleges Faculty of Management](#) Master of Management Program
Contact Information

Contact Information

[15534] Please visit [Master of Management](#) for more information about the program.

Draft Academic Calendar URL:

<http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,1042,0>

Present Academic Calendar Entry:
[Homepage \(draft\) Faculties, Schools, and Colleges Faculty of Management](#) Master of Management Program

[15534] Please visit [Master of Management](#) for more information about the program.

Type of Action: Reorganize the Master of Management Academic Calendar entry to include a section on Academic Regulations.

Rationale: The Master of Management is a graduate degree and as such the proposed Academic Calendar entry clarifies that the promotion requirements are similar to those in other graduate programs.

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Okanagan Senate
c/o
Enrolment Services | Senate & Curriculum Services
Brock Hall 2016 – 1874 East Mall
Vancouver BC V6T 1Z1
Tel: (604) 822-8141 | Fax: (604) 822-5945
megan.stewart@ubc.ca

May 4, 2012

To: Senate

From: Learning & Research Committee

Re: Candidates for Emeritus Status (approval)

The Learning & Research Committee Committee recommends approval of the following motion:

Motion: *That the attached list of individuals for emeritus status be approved and that, pursuant to section 9(2) of the University Act that they added to the Roll of Convocation.*

Respectfully submitted,

Dr Peter Arthur
Chair

EMERITUS REPORT TO SENATE MAY 2012


Title	First Name	Last Name	Rank	Faculty/School
Dr.	Ken	Phillips	Associate Professor (tenure)	Faculty of Creative and Critical Studies
Dr.	Nancy	Netting	Associate Professor (tenure)	Barber School of Arts and Sciences



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Office of the Provost & Vice Principal

MEMORANDUM

Date: September 5, 2012
To: Okanagan Senate
From: Professor Wesley Pue, Provost and Vice Principal 
Re: Creation of Centre for Optimization, Convex Analysis and Nonsmooth Analysis (COCANA)

Attached is the proposal for the creation of the Centre for Optimization, Convex Analysis and Nonsmooth Analysis (COCANA) put forward by the Irving K. Barber School of Arts and Sciences. I have approved the creation of this centre on the basis of the terms contained in the proposal.

This is being presented to Senate for information pursuant to Senate Policy O-5.



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Office of the Dean

Irving K. Barber School of Arts and Sciences
Okanagan Campus
3333 University Way
Kelowna, BC Canada V1V 1V7

Tel: 250-807-9527
Fax: 250-807-8001

MEMORANDUM

TO: Dr. Wes Pue, Provost

FROM: Dean Cynthia Mathieson

A handwritten signature in cursive script that reads "Cynthia Mathieson".

DATE: July 18, 2012

RE: COCANA

In accordance with Senate Policy O-5: Research Centres and Research Institutes, I recommend that we establish the Centre for Optimization, Convex Analysis and Nonsmooth Analysis (COCANA) at UBC, Okanagan campus. The Centre will focus on research in the area of optimization and will build on the expertise of its founding members, Drs. Bauschke, Hare, Lucet and Wang. This core group has already garnered accolades for their international research achievements and for their high profiles in student training. The infrastructure already has a firm base due to CFI awards to Drs. Bauschke, Lucet and Wang.

Attached you will find the Management Plan for COCANA and the C.V.s of the founding members. Although Centres do not require Senate review, I will await your further direction as to any questions you may have, ultimately leading to your approval as you see fit.

Thank you for your attention in this matter. I look forward to having COCANA officially designated as a UBC Okanagan campus Research Centre.

**UBC Research Centre for
Optimization, Convex Analysis & Nonsmooth Analysis
(COCANA)
Management Plan
2012-05-22**

Vision Statement

Our ambition is to advance the state of knowledge in Optimization with particular focus on nonsmooth and convex analysis. The Centre for Optimization, Convex Analysis & Nonsmooth Analysis (COCANA) will realize this aim through conducting research in mathematics and computer science and by providing diverse training in optimization research and practice.

Mission

The Centre for Optimization, Convex Analysis & Nonsmooth Analysis (COCANA) will formalize the international recognition already achieved by researchers in the OCANA research group. The Okanagan campus of the University of British Columbia has one of the most active research groups on optimization in North America. The OCANA research group has been training highly qualified undergraduate, graduate, and postdoctoral personnel who are uniquely positioned to make significant contributions in optimization both in academia and in the industry.

Strategic Directions

The strategic directions for COCANA are as follows:

1. Build and maintain a team of core faculty to realize our vision;
2. Provide undergraduate, graduate, and postdoctoral research training;
3. Secure funding for infrastructure, training, and research;
4. Develop collaborations with leading national and international experts;
5. Disseminate and activate research-derived knowledge;
6. Promote knowledge transfer through industry collaboration;
7. Promote optimization by enhancing COCANA profile and visibility.

Research Focus

OCANA research has recognized international expertise in the following core subfields of optimization:

- I. monotone operators theory with applications to first order optimization methods like projections;
- II. nonsmooth analysis with applications to optimality conditions and nonsmooth and nonconvex optimization algorithms;
- III. oracle driven optimization methods such as derivative-free optimization methods and proximal point algorithms;
- IV. optimization applications such as road alignment optimization, medical therapy planning, infrastructure design and operations research; and
- V. convex analysis with the development of computer-aided toolboxes to help learning and investigating nonsmooth objects.

Context and Rationale

UBC has a strong OCANA team; the four core faculty members have distinct, but complementary, research interests, and strong backgrounds in optimization and analysis. Our energetic, ambitious, and accomplished team includes a Canada Research Chair and full professor (H. Bauschke), two associate professors (Y. Lucet and S. Wang), and an assistant professor (W. Hare), each with an exemplary research record considering his respective career stage.

The members of COCANA continue to be the faculty responsible for the creation of the optimization theme in the IGS program, and the development and delivery of several courses in optimization. Our team has also developed close working relationships with optimization researchers in Washington State, BC, and Alberta through the West Coast Optimization Meetings (WCOM) that has been organized several times on our campus. Furthermore, the core researchers have collaborated with international researchers e.g. in Australia, Brazil, France, Germany, Greece, Israel, and the U.S.

Our research benefits the community in numerous ways. Our graduate students have all found positions in academia or industry where they continue applying their skills, we have several industry sponsored grants that help companies obtaining a competitive edge, and we also contribute to projects like improving radiotherapy treatment delivery for cancer treatment that directly benefit the public.

Scope

We are committed to

- conducting cutting-edge research in our identified themes;
- providing world-class training opportunities for graduate students and postdoctoral researchers;
- offering substantial opportunities for undergraduate research; and
- fostering an international community of scholars.

Community Involvement/Collaboration

COCANA has already established relationships with the BC cancer agency through the Honours and IGS Programs: Dr Rasika Rajapakshe is a UBC adjunct professor and a grad co-supervisor, and several of our students in mathematics, physics, and computer science have completed internships at the Kelowna cancer clinic. COCANA has also several industry sponsored grants on the road optimization project, and is actively pursuing other industry collaboration with the submission of new NSERC Engage grants. OCANA is also actively participating in several events funded by the PIMS Collaborative Research Group "Optimization: Theory, Algorithms, and Applications".

Coherence with UBCO Strategic Research Plan

COCANA mission and vision is closely aligned with the UBCO Strategic Research Plan [2009-2014]. COCANA has demonstrated strength in partnership and excellence in research as emphasized in the UBCO Strategic Research Plan. COCANA has fulfilled, and will continue to fulfill, the promise made to provide undergraduates with an opportunity to participate in advanced scholarly research projects. The work of COCANA fits within several areas of Research Priorities:

The *Health, Culture, and Diversity*: collaboration with the BC cancer agency (graduate co-supervision of Dr. P. Lasserre) and ongoing projects on the radiotherapy treatment planning problem (CFI funded laboratory of Dr. Y. Lucet, NSERC Discovery grant of Dr. W. Hare).

The *Innovative Systems, Technologies and Processes*: ongoing MITACS and NSERC grants on the road design problem, additional work on the study of the resiliency of infrastructure to natural disasters.

The *Innovations in Teaching and Learning*: development of the computer-aided convex analysis toolbox, organization of a workshop at the Canadian Undergraduate Mathematics Conference (CUMC), research on active learning strategies and development of tools to enhance and assess learning computer programming concepts.

Coherence with UBCO Academic Plan and Strategic Action Plan

COCANA is grounded in all four of the Imperatives of the UBCO Academic Plan: an intimate learning community; an integrated research community; a locally responsive, globally conscious community; and a flexible adaptable, sustainable community. The teaching model employed in COCANA is essentially an apprenticeship one, where students are mentored by experienced faculty in the process of modeling and solving optimization problems, exploring and formulating conjectures, and investigating and proving new results. We demonstrate our commitment to the integrated research community concept by fostering high-quality research within the context of both undergraduate and graduate education—our graduate students are trained to take on the role of mentors to our undergrads by their own experiences as graduate students within our community of scholars.

Similarly, COCANA is aligned with two Priority Themes of our Strategic Action Plan [2010]: Inquiry-Driven, Research-Based Learning and Sustainability. The apprenticeship model speaks directly to the fundamental value of student engagement.

Similarly, COCANA's existence is consistent with the two foundations of Advancing Knowledge & Transformative Learning and Community Engagement. Students within COCANA have taken advantage of the opportunity to visit the Computer-Assisted Research Mathematics and its Applications (CARMA) research centre at the University of Newcastle, Australia and collaborations have been enhanced with regular seminars held by video-conference in the CFI-funded OCANA CoLab.

Sources of Funding

Primary funding for COCANA infrastructure comes from the Canadian Foundation for Innovation - Leadership Operating Fund [CFI]. The CFI awards to Drs. Bauschke, Lucet, and Wang have provided for the renovation and outfitting of the core space with research equipment. The CFI funding also includes Infrastructure Operating Funds [IOF] for the operations and maintenance of the CFI infrastructure. Lab management responsibilities will be assumed by the RAs associated with the primary researchers and will be funded by Tri-Council grants to these researchers. Maintenance and support for computer workstations and COCANA server will be provided by UBCO IT services as agreed to in the CFI application [UBC's in-kind contribution]. After five years, the cost of maintenance and replacement of equipment will be covered by external funding [Tri-Council and otherwise]. COCANA will continue to attract outstanding graduate students and post-doctoral fellows who will play central roles in assisting in the maintenance and development of COCANA research capabilities. Current funding to COCANA faculty through the NSERC Discovery Grant program is in excess of \$100,000 annually, and the advantages provided by the establishment of COCANA will be a central feature of future requests for funding.

COCANA is also participating in several events funded by the PIMS Collaborative Research Group "Optimization: Theory, Algorithms, and Applications".

Additional resources for COCANA maintenance will be draw from industry and industry sponsored grants (NSERC Engage, MITACS Accelerate, NSERC CRD). COCANA researchers have secured several NSERC Engage and MITACS Accelerate grants recently, in addition to an NSERC CRD grant, and a PIMS CRG focus group grant on Optimization: Theory, Algorithms, and Applications. Those grants would provide additional funding for the activity of the Centre, but more importantly it would provide financial support and experience for the students.

Membership and Governance

Membership in COCANA consists of the Founding Members [Heinz Bauschke, Warren Hare, Yves Lucet, and Shawn Wang] – all of whom are renowned optimization researchers.

Voting members (henceforth Members) shall consist of the Founding Members and new Members added by voting majority. Full membership is exclusive to optimization researchers who are actively involved in COCANA's activities, whereas affiliate membership is also open to those who are not optimization researchers. New Members and Affiliates are added by a majority vote of Members.

The Founding Members are without term; all other memberships are by application and approval by a simple majority for up to a 3-year renewable term.

Graduate Members of COCANA are non-voting. Graduate students supervised by COCANA Members and Affiliates are automatically members; graduate students of non-members may apply for membership.

COCANA is overseen by a Director and a Steering Committee.

The Directorship of COCANA will rotate amongst Drs. Bauschke, Hare, Lucet, and Wang for 2-year terms, with the approval of the Dean of Arts and Sciences. Dr. Lucet is the current Director and as such, is responsible for coordinating the operations of COCANA for the first 2 years from its creation. The director job is to coordinate and plan COCANA seminars, update the COCANA website, and submit an annual report to the dean.

The Steering Committee will be selected by the voting members of COCANA and will consist of the Director and a committee of three members appointed to a 3-year renewable term by a majority vote of the membership.

Schedule for Review

Review of COCANA will be facilitated by the production of annual reports and bulletins. The ongoing establishment of the CFI-funded infrastructure is subject to annual reviews by CFI. We propose that review of COCANA by the dean occurs 5 year after creation [i.e., 2017] and every 5 years subsequent.

Membership

i. Founding Members

Heinz Bauschke, (Mathematics), PhD
Warren Hare, (Mathematics), PhD
Yves Lucet, (Computer Science), PhD, Director
Shawn Wang, (Mathematics), PhD

ii. Voting Members

Hung Phan, (Mathematics), PhD, May 2012—Aug 2013

iii. Affiliate Members

Julien Cheng, (Engineering), PhD, PEng, 2012—2015
Yong Gao, (Computer Science), PhD, 2012—2015
Donovan Hare, (Mathematics), PhD, 2012—2015
Patricia Lasserre, (Computer Science), PhD, 2012—2015
Kian Mehravaran, (Engineering), PhD, 2012—2015
Solomon Tesfamariam, (Engineering), PhD, PEng, 2012—2015
Ima Rahmanian (Engineering), PhD, May 2012—April 2013

iv. Graduate Student Members

Kasra Bigdeli, (MSc Candidate, Engr), supervised by Tesfamariam and Hare
Randy Engman, (PhD Candidate, IGS), supervised by Lucet and Mehravaran
Murat Eskicioglu, (MSc Candidate, IGS), supervised by Lucet
Shahadat Hossain, (MSc Candidate, IGS), supervised by Lucet and Hare
Jakee Khan, (MSc Candidate, IGS), supervised by Lucet
Salma Kheiravar (MSc Candidate, IGS), supervised by Lasserre
Steve McAvoy (MSc Candidate, IGS), supervised by Lasserre
Sarah Moffat, (PhD Candidate, Math), supervised by Bauschke and Wang
Sukanto Mondal, (MSc Candidate, IGS), supervised by Tesfamariam and Lucet
Walaa Moursi, (PhD Candidate, Math), supervised by Bauschke and Hare
Jim Nastos, (PhD Candidate, IGS), supervised by Gao and D. Hare
Chayne Planiden, (MSc Candidate, Math), supervised by Hare
Faisal Rahman, (MSc Candidate, IGS), supervised by Lucet
Kiumars Soltani, (MSc Candidate, Math), supervised by Hare and Lucet

v. Alumini Student Members

Julie Nutini, MSc Math, April 2012, supervised by Hare
Liangjin Yao, PhD Math, December 2011, supervised by Bauschke and Wang
Sheena Haines, MSc Math, July 2011, supervised by Loeppky and Wang
Jason Schaad, MSc Math, August 2010, supervised by Bauschke
Valentin Koch, MSc Math, April 2010, supervised by Hare and Lucet
Mike Trienis, MSc IGS, December 2007, supervised by Lucet