

2015 ABE Mathematics Working Committee

Minutes

British Columbia Council on Admissions and Transfers (BCCAT)

Vancouver Community College (Downtown Campus)

Thursday, March 5, 2015 & Friday, March 6, 2015

Co-Chairs: Robert Ferro, Yukon College
Costa Karavas, Vancouver Community College

Vice-Chair and Recorder: Bob Darling, Vancouver Island University

Present:

Representative	Institution	Email/Contact
Winona Cordua-von Specht	BCIT	wcordua@bcit.ca
Alison Bowe	Camosun College	bowe@comosun.ca
Patrick Montgomery	Camosun College	montgomeryp@camosun.bc.ca
Richard Brand (March 6 only)	Capilano University	thomasb@capilanou.ca
Del Dhammi (March 5 only)	Capilano University	delhammi@capilanou.ca
Vida Robillard	College of New Caledonia	robillardv@vnc.bc.ca
Deb Heal	College of the Rockies	dheal@cotr.bc.ca
Terry Gideon	Douglas College	gideont@douglascollege.ca
Tanya Boboricken	Kwantlen Polytechnic University	tanya.boboricken@kpu.ca
Neha Bharadwaj	Native Education College	nbharadwaj@necvancouver.ca
Stefan Zabek	Nicola Valley Institute of Technology	szabek@nvit.bc.ca
Bill Morrison (March 5 only by phone)	North Island College	william.morrison@nic.bc.ca
David Batterham	Northern Lights College	dbatterham@nlc.bc.ca
Phil Bialobzyski	Northwest Community College	pbialobzyski@nwcc.bc.ca
Mike Rutten	Okanagan College	mrutten@okanagan.bc.ca
Allison Alder	Selkirk College	aalder@selkirk.ca
John Salvatore	Thompson Rivers University	jsalvatore@tru.ca
No representative present	University of the Fraser Valley	
Costa Karavas	Vancouver Community College	ckaravas@vcc.ca
Bob Darling	Vancouver Island University	darling@viu.ca
Robert Ferro	Yukon College	rferro@yukoncollege.yk.ca
Guests (March 5)		
David Wells (Dean of Access, VCC)	Vancouver Community College	not provided
Melissa Horner (Education Officer)	Ministry of Education	Melissa.Horner@gov.bc.ca
Ruth Erskine, Committee Coordinator	BCCAT	rerskine@BCCAT.bc.ca
Alison Alder	Co-chair, ABE Steering Committee	aalder@selkirk.ca
Presenter (March 6)		
Dr. Peter Liljedahl, Associate Professor	Simon Fraser University	liljedahl@sfu.ca
Guest (March 6)		
Dr. Lucie De Blois	University of Laval, Quebec City	not provided

Thursday, March 5, 2015.

1. Welcome and Introductions

Robert Ferro called the meeting to order at 9:10 am.

David Wells Dean, School of Access, VCC, welcomed and thanked the group for taking the time to come to Vancouver to carry out the articulation work. He spoke briefly to the new tuition- based model and its potential effects on our programs across the province.

Robert Ferro (Yukon), Co-Chair, reviewed the purpose of the meeting by referencing the Articulation Committee Companion published by BCCAT. He emphasized the importance of all institutions being represented at Articulation Meetings.

2. Approval of the Agenda with the following amendments:

Math 070 and 072 (COTR) along with Math 030 and Math 031 (NLC) added to the list of Intermediate Level courses to be articulated under item 11(a).

Motion: Alison Bowe (Camosun) Second: Stefan Zabek (NVIT). That the agenda be approved as amended. CARRIED.

3. Approval of the Minutes(with one amendment)

The request to consider Math 047 Advanced Level- Foundations of Mathematics electronically was withdrawn although the course passed NWCC's Education Council in May 2014.

Motion: Phil Bialobzyski (NWCC) Second: Mike Rutten (Okanagan). CARRIED

4. Action Items from the March 6 & 7, 2014 meeting

- (a) A list of adopted textbooks and hours of instruction for each course are now available on the Kwantlen website.
- (b) Open Textbook Project. No successful proposals were submitted. If instructors are still interested in pursuing they should get in touch with Mary Burgess at BCCampus. The Ministry is encouraging us to pursue this option.
- (c) The Chair reported that they have been in touch with Ron Coleborn (BCAMT). According to Ron, there is unlikely to be major changes to the current Math 10-12 offerings.
- (d) Submission of Course Outlines for Intermediate Mathematics. Everyone present has acted on this item.

5. Presentation by Melissa Horner, Education Officer, Mathematics Curriculum and Assessment, Ministry of Education.

- Melissa provided an overview of how ministry determines course equivalency versus external credit. For courses to be equivalent to Ministry of Education's courses there needs to be at least an 80% match in learning outcomes. Some ABE Courses are accepted as external credit with few difficulties. Some courses are similar but do not meet the 80% criteria. For example, our Advanced Foundation course doesn't make the 80% criteria. While the course is something very similar to what students might take in Grade 11, if students take too many of the options there would at best be a 50% match.
- Increasingly, post-secondary institutions are accepting the Foundations courses. The old Applications courses did not have the same acceptance.

- Melissa indicated that while there have been discussions around changes to Math 10-12, there is currently not a big appetite to change the Foundations or Pre-Calculus streams. The A&W stream is viewed by some teachers and administrators as a “dumping ground” for unmotivated students. Many educators attached to K-12 are looking at math-related electives such as Accounting or Computer Science as possible alternatives. Looking ahead English and Math may have an examination requirement for graduation purposes.
- Alberta, British Columbia and Manitoba are moving away from the Western Canada Protocol.
- Costa Karavas (VCC) enquired about the popularity of online courses. Melissa reported that she did not have currently data regarding enrolments or success rates but that they could be provided.
- Possible Action Item as a result of Melissa’s presentation: Review our Advanced Foundations course with the aim of adjusting the learning outcomes match the 80% match criteria for equivalency.

6. Three other Working Committees joined the meeting – Computer Studies, EDCP and Indigenous ABE Studies for two presentations.

- Ruth Erskine, Committee Coordinator from BCCAT, summarized the most recent activity at BCCAT. She circulated and spoke to two documents. A January 2015 document entitled “A Look Back – A Retrospective analysis of the Sequence of Life Course Events over 22 Years” encapsulates the post-secondary and work experiences of British Columbia high school graduating class of 1988. The other document, “BCCAT Report – Spring 2015” addressed the ongoing activities at BCCAT. (refer to attachments)
- Alison Alder, Co-Chair, ABE Steering Committee provided an overview of the role of the Steering Committee in the Articulation Process. Essentially all changes are submitted to the Steering Committee. Changes are then passed and implemented in May of each year. The Steering Committee also carries out liaison with Deans and Directors of Developmental Education (DDDE).
- There was lengthy discussion regarding the recent implementation of tuition for ABE courses across the entire sector. All institutions are working to mitigate the results of this change in provincial government policy. The Steering Committee has written to the Deputy Minister outlining its concerns.
- Committee minutes and relevant documents can be found on the KPU website.

7. Reports/Updates:

- BCCUPMS Report - Costa Karavas (VCC). Costa provided a summary of the Report from BCCUPMS meeting held at KPU May 13- 14, 2014. He spoke to the findings of the Calculus Readiness Test Subcommittee and the recognition of the Calculus Challenge Exam (refer to attachment).
- Adult Literacy Fundamental Committee Report – Tanya Boboricken (KPU). Tanya addressed the elimination of the GED in British Columbia and the long term implications of funding cuts to ESL.

- Ministry Update –Tegan Tang, Education Officer AVED. Tegan was not present at this year’s meeting. She submitted a ministry update that summarized the changes to tuition policy, the availability of Adult Upgrading Grant (AUG), and a Call for Proposals for the 2015/16 Community Adult Literacy Program (CALP) (refer to attachment).

8. Discussion on a wide number of issues related to the articulation and completion of ABE math courses.

- Phil Bialobzyski (NWCC) indicated we might wish to consider assessing students based on the completion of modules. If students have breaks from their studies they don’t have to revisit materials already learned. Completion of modules could constitute completion of the course.
- A question of how much time ought to be allowed between the completion of units or modules. Many representatives believe that a final exam is important. It really depends on where the students are heading. If they are taking more mathematics, then the final accumulative exam fulfills an important function.
- Students’ plans change. Some need the accumulative understanding others may not. All students need to be properly informed about the requirements and expectations of accepting courses and programs.
- PLA may eliminate the need for students to complete and entire course.

9. Re-Articulation of Intermediate Level Math Courses

- Intermediate courses from Camosun, NVIT, Selkirk and KPU have been re-articulated within the last two years so they do not have to be considered at this year’s meeting.
- Groups of four were formed to consider all of the Intermediate outlines submitted across the province and Yukon. Outlines can include either the relevant link to the Articulation Handbook or list all of the Learning Outcomes. One or the other or both methods are sufficient to meet the Articulation criteria.

Motion: Stefan Zabek (NVIT) Second: Vida Robillard (CNC)

That CNC’s Math 030 be accepted as meeting the learning outcomes for Intermediate Level Mathematics – Algebraic pending approval of CNC’s Education Council and correction of a typo on the last line of the last page. CARRIED.

Motion: Terry Gideon (Douglas) Second: Tanya Boboricken (KPU)

That the following courses be accepted as meeting the Intermediate Mathematics learning outcomes:

MATH 071 1st half of Dev (OK)

MATH 030 Dev (Yukon)

MATH 0750 & 0751 Algebraic (VCC)

MATH 050 & 051 Dev (NEC)

MATH 070 Algebraic (COTR) CARRIED.

Motion: Deb Heal (COTR) Second: Mike Rutten (OK)

That Math 072 Dev (OK) be accepted as meeting the 2nd half of the learning outcomes for Intermediate Level pending the addition of the section on polynomials. CARRIED.

Motion: Alison Bowe (Camosun) Second: Del Dhammi (CAP)

That Math 0400 and Math 0410 Algebraic (TRU) be accepted as meeting the Intermediate Level learning outcomes pending the following correction to Unit 6 Linear Equations and Graphing . Change the wording from "...determine the equation of a line to $y = mx$ " ... to "...determine the equation of a line $y = mx + b$...". CARRIED.

Motion: Mike Rutten (OK) Second: Phil Bialobzyski (NWCC)

That BMTH 033 and BMTH 034 Algebraic (CAP) be accepted as meeting the Intermediate Level learning outcomes pending moving the link to the Articulation Guide to the beginning of the list of topics. CARRIED.

Motion: Patrick Montgomery (Camosun) Second: Mike Rutten (OK)

That MATH 030 Dev (VIU) be accepted as meeting the Intermediate Level outcomes pending that the course is approved by the Senate of VIU. CARRIED.

Motion: Terry Gideon (Douglas) Second: David Batterham (Northern Lights)

That MATH 072 Dev. (COTR) be accepted as meeting the Intermediate Level learning outcomes pending approval of the College of the Rockies' Education Council. CARRIED.

Motion: John Salvatore (TRU) Second: Mike Rutten (OK)

That MATH 030 Algebraic (Northern Lights) and MATH 031 Dev (Northern Lights) both be accepted as meeting the Intermediate Level learning outcomes pending the approval of Northern Lights College's Education Council. CARRIED.

Motion: Stefan Zabek (NVIT) Second: Tanya Boboricken (KPU)

That Mat 033 and Math 034 Algebraic (NIC) be accepted as meeting the Intermediate Level learning outcomes pending the approval of North Island College's Education Council. CARRIED.

10. Articulation of Courses at the Other Levels

Motion: Stefan Zabek (NVIT) Second: Del Dhammi (CAP)

That the following courses be accepted as meeting the learning outcomes as outlined in the Articulation Handbook:

MATH 0861 and MATH 0871 Advanced Algebraic (VCC)

MATH 0983 and MATH 0993 Provincial Level - Algebra and Trigonometry (VCC)

MATH 065 and MATH 066 Provincial Level – Algebra and Trigonometry (VIU) CARRIED.

The meeting Adjourned at 4:20 pm

Friday, March 6, 2015.

1. Costa Karavas (VCC) drew our attention to an online petition at change.org encouraging the provincial government to adequately fund ABE programs. Global, CBC and CTV all covered the ABE event at the Croatian Multicultural Centre on Commercial Drive last evening.
2. **Joint Annual Meeting of Articulation Committed Chairs, SLP's and ICPs held November 14, 2014.** Robert Ferro (Yukon) provided an update on the discussions. Jan Unwin, the keynote speaker spoke to a new model of education that would personalize learning and de-emphasize grades and exams. The meeting also affirmed the importance of the articulation process. Campus Manitoba is adopting the BCCAT model. Ontario has already adopted our model (refer to attachment).
3. **Wide-Ranging Discussion on a variety of Topics**
 - Relationships with our local School Districts
 - Dual Credit
 - The importance of paying attention to any changes in the secondary school system, although we do not need to always model our courses after theirs.
 - Implications of how we offer our course in light of the system moving to tuition for our ABE courses.

Motion: Stefan Zabek (NVIT) Second: Tanya Boboricken (KPU)

That the following subcommittee examine the Advanced Foundations course with the aim of ensuring that the course at least meets the criteria for external credit to the BC's Secondary System: Phil Bialobzyski (NWCC), Tanya Boboricken (KPU), Stefan Zabek (NVIT), Richard Brand (CAP).

Melissa Horner could provide the committee with feedback on how to streamline the process.
CARRIED.

4. **Potential Curriculum Projects/Open Textbooks**
 - Deb Heal (COTR) indicated that we may wish to consider developing a course equivalent to Foundations 12. The consensus of opinion was that there was currently not a huge need for such a course.
 - No proposals were submitted to develop Open Textbooks but BCCampus is still open to submissions. Costa Karavas (VCC) suggested that we might wish to develop a small component or modules rather than a textbook for an entire course.
 - Steve Cheung, and instructor at VIU, has found a number of useful online resources that might be worthwhile uploading to the Kwantlen website.
5. **Schedule for Re-Articulating ABE Mathematics Courses**

Motion: David Batterham (Northern Lights) Second: Mike Rutten (OK)
That the ABE Mathematics Working Committee adopt the following schedule for re-articulating the courses in the Articulation Handbook:

Intermediate (Algebraic) 2015 (Considered in detail at this meeting.)
Intermediate (Developmental) 2015 (Considered in detail at this meeting.)
Advanced (Algebraic) 2017
Advanced (Developmental) 2018
Advanced (Bus/Tech) & Foundations 2019
Provincial (Algebra and Trigonometry) 2020
Provincial (Calculus) 2021 CARRIED.

6. Discussion on the use of Calculators

- Implications of Multiview Calculators that display exact answers and that are programmable.
- Perhaps our tests should be divided into 2 parts - one part that will allow the use of a calculator and another that will not.
- Robert Ferro (Yukon) referred to the Ministry of Education's Calculator Policy. Cell phones and other electronic devices are not permitted.
- Communication with accepting programs and departments regarding calculator use and policies is considered important.

7. Presentation

"Thinking, Learning, or Studenting: The View from the Back of the Classroom" by Dr. Peter Liljedahl, Associate Professor, Faculty of Education Simon Fraser University. (Dr. Liljedahl was accompanied by his colleague, Dr. Lucie De Blois, Professor, Laval University).

With the aid of a Power Point Presentation, Dr. Liljedahl outlined how the traditional instructional approach of student note taking, attempting sample questions in class, followed by assigning homework is often ineffective. He advocates the use of group work, the implementation of students working on non-permanent vertical surfaces and "defronting" the classroom as measures that improve student work habits and outcomes.

8. Unfinished Articulation Business from March 5.

Motion: Phil Bialobzyski (NWCC) Second: Tanya Boboricken (KPU)

That MATH 0301 and MATH 0302 Dev (NWCC) be accepted as meeting the Intermediate learning outcomes providing the following changes are included in the MATH 0303 outline:

- Use the rules of exponents to calculate products and quotients of powers with the same base.
- Use the rules of exponents to calculate the powers of powers. CARRIED.

9. Professional Development Proposal for all ABE Articulation Committee Representatives

Motion: David Batterham (Northern Lights), Second: Richard Brand (CAP)

That the Mathematics Working Committee recommend to the Steering Committee that it support a 3-day Articulation Conference for all articulation representatives to address overarching issues facing Adult Basic Education in British Columbia. Regular articulation business would also be conducted at the proposed Conference. CARRIED.

10. Election of Co-Chairs

Robert Ferro (Yukon) and Costa Karavas (VCC) were elected unanimously to continue as Co-Chairs of the ABE Mathematics Working Committee for 2015/2016.

11. Next Year's Meeting

Next year's meeting will be held on March 3 & 4, 2016 at Kwantlen Polytechnic University, Richmond Campus (Confirmed by email March 23, 2015).

12. Adjournment

The meeting was adjourned at 3:20 pm.

**REPORT ON THE BRITISH COLUMBIA COMMITTEE ON THE
UNDERGRADUATE PROGRAM IN MATHEMATICS AND STATISTICS
HELD AT KWANTLEN POLYTECHNIC UNIVERSITY (RICHMOND CAMPUS), MAY 13 – 14TH, 2014**

Presented by Costa Karavas (Vancouver Community College) at the ABE Mathematics Working Group Meeting held at VCC on March 5-6, 2015

1. Report from the Calculus Readiness Test Subcommittee—Justin Gray (SFU)

A group was struck to come up with a shared calculus readiness test for postsecondary institutions across BC. A database of 90 precalculus problems have been coded in LON-CAPA and at this time Justin is looking for volunteers to administer the current draft to groups of students in order to generate feedback. There was some discussion and questions about whether the test is intended as self-diagnostic or for placement in appropriate postsecondary courses.

Once the test is finalized it will be able to randomize the questions and graded by Scantron (outside of LON-CAPA). Security will have to be discussed once the test is finalized if it is to be used as a placement tool.

2. Calculus Challenge Exam – Wayne Nagata (UBC)

Students who learn differential calculus in high school can demonstrate their mastery of the subject and claim credit at a BC university. It is recognized by UBC, SFU, UVic, UNBC. The test costs \$100 and allows the use of a calculator and includes a standard formula sheet. The test is administered alternately at SFU and UBC but students outside of the lower mainland can take the test with an invigilator. The test is similar in content and difficulty to a typical Math 100 exam at UBC and includes many word problems. The last test was administered to 95 students province-wide in June 2013. Of the students who took the test, 43 passed, a 45% pass rate, which is a decrease in pass rate. The percentage earned on the test would become the student's grade in Math 100 if they chose to use it for credit.

3. Report from the Ministry of Education - Melissa Horner

Melissa gave a presentation on the Ministry of Education's current Curriculum Redesign Principles. The entire K-12 curriculum is being examined to ensure core competencies are explicit, to reduce the prescriptive content and to allow for more flexibility and choice in curriculum delivery. The content in the curriculum redesign is similar to the current content in the K-12 math stream. The focus will remain on problem solving with financial literacy added in grades 1-9 and more consistency in K-9 probability and statistics. There is concern that there is currently too much content in grades 8 and 9. There is a desire to integrate aboriginal content in the new curriculum. There was discussion about the value of provincial exams in grade 12 math courses and many instructors felt grades might be more consistent and reflective of students' actual abilities if a common provincial final exam made up part of their grade.

4. Tracking online high school students—Justin Gray (SFU)

Justin reported that we don't have any way to track how high school math students are doing in online courses vs. face-to-face courses. The concern at postsecondary institutions is that students taking high school math courses online won't be prepared for university level courses.

**Summary of Joint Annual Meeting of Articulation Committee Chairs, System Liaison Persons (SLPs)
and Institutional Contact Persons (ICPs)**

14 November 2014

Submitted for ABE Math Working Group meeting March 5-6, 2015

Information gleaned and taken from BCCAT website at: <http://www.bccat.bc.ca/articulation/jam/>

**1. Keynote address: Secondary to Post-Secondary Transitions by Jan Unwin,
Superintendent of Graduation and Student Transitions, Ministries of Education and
Advanced Education**

- The world has changed ... the way we educate our children should too.
- Students must be at the centre of their learning
 - Personalized learning
 - Quality teaching and learning
 - Flexibility and choice
 - High standards
 - Learning empowered by technology
- Principles of curriculum redesign
 - Ensure core competencies are explicit in redesign
 - Reduce the prescriptive nature of curriculum while ensuring a solid focus on essential learning
 - Allow for flexibility and choice for students and teachers
 - Focus on the important concepts and big ideas in each area of learning
 - Emphasize higher order learning and deeper learning
 - Respect the inherent logic and unique nature of the disciplines while supporting efforts to develop cross-curricular units
 - Align assessment and evaluation with the redesign of the curriculum
- Want to develop an educational experience where:
 - We honor and value all learning regardless of where and when and how it takes place
 - Learning experiences are not separated by grades and where teachers take on a coaching and mentoring role to assist kids in finding their passion and their successful pathway to their future
 - Competencies are achieved using content as the vehicle
 - There is space and flexibility, room for personalized learning and some common content
 - Reporting is ongoing communication of student's progress against standards
 - A capstone project allows students to demonstrate learning that is deep, personal, and passionate
- What are the Implications of transformation for the Ministry of Education?
 - Must begin to review: funding formula, capital spending, reporting, audits, transcripts, letter grades, graduation credentialing, required areas of study, scholarships/awards, provincial exams, teacher education, etc.
- What's next?
 - Working collaboratively to get it right
 - Want our advice to help us co-create the "right" and the "best" educational experience for all students

2. What's Up? BC Transfer System Update by Mike Winsemann, Assistant Director, Transfer and Technology, BCCAT

- Overall, system continues to function at high level
 - Over 183 000 transfer agreements
 - Approx.. 3200 articulation requests pending
 - Average response rate: 68 days per request
 - Over 15 000 agreements imported since all institutions became sending/receiving
- Associate degree
 - Updated framework for Associate of Arts/Science degree aiming for January 2015
 - New associate degree will be “work-ready, transfer-ready” and will offer institutions greater curricular flexibility
- Education Planner
 - Currently collaborating with WorkBC on development of their Blueprint tool
 - Working with Ministry to determine how EP can be a resource for skills platform
 - Use and awareness remains high
- BCCAT
 - New website launched in August 2014
 - Involved in a number of initiatives to advanced inter-provincial mobility
 - CampusManitoba is using BCCAT’s TCES as a model for their transfer system
 - In regular contact with ACAT about their technology developments

3. Looking Back: BCCAT and the BC Transfer System by Valerie Yorkston, Executive Assistant to the Council and Communications Coordinator

- 1989 BCCAT is established
- 1990 BC Transfer Guide is Published
- 1995 BC Transfer Guide is launched as part of BCCAT Online
- 1995 publishes its first research report (this publication marked the first of several arising from a longitudinal study of the Class of 1988)
- 1996 launches comprehensive research program (to date, BCCAT has published over 900 publications—including research reports, handbooks, newsletters, etc.)
- 1997 first Articulation Committee Handbook published
- 1999 Transfer TIPs for BC Students published
- 2004 EducationPlanner.ca is launched
- 2005 BCTransferGuide.ca is launched
- 2005 begins collaboration with Student Transitions Project (STP)
- 2009 hosts the first Joint Annual Meeting
- 2012 BCCAT websites attract record numbers of students (approx.. one million unique visitors)

- 2014 inter-provincial MOU signed (four Canadian CATs—BC, Alberta, Ontario, New Brunswick—sign historic MOU leading the way for collaborative projects enabling inter-provincial transfer)
 - 2014 awarding of BCCAT’s first BCCAT Transfer Awards
- 4. Dual Credit, Junko Leclair, North Island College and Donna Scott, School District #41 (Burnaby)**
- NLC
 - Northern Opportunities Partnership—an organization of institutional colleges and business
 - Industry might provide extra curriculum
 - At NLC, every program is available for dual credit
 - They reserve a number of seats for dual credit, but never more than 50%
 - Major issue is that not all graduate from grade 12 as they find more money as apprentices
 - Sometimes 17 and 18 year-olds are not quite ready to choose which career
 - Burnaby School District
 - In grades 11 and 12, students can be spending 50% of their time in college-related coursework
 - Each institution is different and there is a close look at curriculum and facilities before starting a dual credit program
 - Parents like to see dual credit
 - Challenge, was a difficult process to establish, but well worth it
 - Dual credit is not about competition but about sharing
 - Looking at new programs—pre-health, pre-engineering, and pre-business
- 5. Next 25 Years: Towards Pan-Canadian Understanding, Collaboration and Trust in Support of Student Mobility by Rob Fleming, BCCAT Executive Director and Co-Chair**
- Canadian and global factors affecting student access and mobility in 2014
 - Quality Assurance Boards
 - Credential outcomes
 - Transcripts and credit assessment (practice guides, PLAR)
 - Credit transfer networks (regional, pan-Canadian, international)
 - Co-curricular records (ex. experiential learning)
 - Memorandum of Understanding among provincial councils
 - Joint annual communications on pan-Canadian basis
 - Facilitate inter-provincial transfer credit agreements
 - Develop cross-jurisdictional data on mobility and credit transfer
 - Develop bilateral and multi-lateral research projects
- 6. Exploring Inter-Provincial Transfer by Jim Bailey, College of the Rockies, Chair of BCCAT Mathematics and Statistics Articulation Committee, and David McNeil, University of Alberta, Chair of ACAT Mathematics and Statistical Sciences Articulation Committee**
- Review of process for articulation of Calculus I and II between Alberta and BC (ACAT-BCCAT Math Articulation Committee case study)

- Collaboration has gone well
- Plans for joint BCcupms and ACAT Mathematics and Statistical Sciences meeting with plenary and parallel sessions in May 2017

7. **Educating Institutions on the Articulation Process by Mike Winsemann, Assistant Director, Transfer and Technology, BCCAT**

- Purpose of articulation committees
 - Exchange information and enhance cooperation in a given area of study
 - Promote course and program equivalency where appropriate
 - Facilitate transfer credit agreements
 - Receive information from BCCAT on system level initiatives
- Sending people to articulation committees costs money
 - Funding of articulation committees is part of base funding from Ministry
 - In the past, was a clearly marked line item in the budget
 - Has since been rolled into overall budget
 - BCCAT and Ministry position is that attendance is funded as part of base and institutions expected to send representatives in related disciplines
- Articulation committees are the glue of the BC Transfer System yet their value is at times misunderstood by those not directly involved in articulation
 1. BCCAT would not be able to effectively coordinate the BC Transfer System without articulation committees

BCCAT Report—Spring, 2015

Transfer & Articulation Activities 2015

The Joint Annual Meeting (JAM) 2015 will take place on Friday, November 6th at the Radisson Airport Hotel, Richmond. Please contact Ruth if you have any ideas for speakers or topics for this year's meeting.

JAM 2014 was attended by over 150 people, with representation from 39 of the 40 BC Transfer System member institutions and ACAT, Campus Manitoba, NBCAT and ONCAT. The keynote speaker was Jan Unwin, Superintendent of Graduation and Student Transitions Ministries of Education and Advanced Education, speaking on the new draft graduation years proposals. All JAM information and presentations can be found at bccat.ca/articulation/jam

Council Awards: As BCCAT celebrated its 25th anniversary last year, Council recognized some of the "champions" of the BC Transfer System at the JAM. Awards were presented in "Rising Star", "Transfer and Articulation Leadership" "Leadership" and the "Franklin Gelin Lifetime Achievement Award" categories. Nominations are open for this year's awards and information be found at bccat.ca/system/awards

Provincial Review of the Associate Degree: Review of proposed revisions to Associate Degree Curriculum Framework requirements and definitions by the DQAB and Ministry of Advanced Education is expected by the Fall of 2015. The proposed revisions would enhance institutional flexibility but not require changes to any existing associate degrees.

An Associate Degree Steering Committee is developing a framework for a possible third option for review by Council, the DQAB, and the Ministry of Advanced Education later this year.

Research on Experiential Learning and Academic Advising. BCCAT has contracted with Dr. Linda Parady of UFV to conduct a study of Academic Advising, to be completed by the end of August 2015, and with Dr. Nancy Johnston of SFU for a study of Experiential Learning to be completed in March, 2016.

Transfer Innovations Projects

- Biology FPM Implementation - currently at the sign-off stage.
- American Sign Language - The ASL Transfer Guide is available on the ASL committee webpage.

- Political Science FPM Analysis: This project is expected to be completed by August 31, 2015.
- Engineering First Year Common Core - the project will conduct a review of current Engineering transfer options and prepare a report on the feasibility of implementing core competencies for first year.

Publications

- **Articulation Committees in the BC Transfer System:** This report offers ideas and guidance for existing committees and other transfer systems exploring use of articulation committees and recommendations for articulation committees seeking to enhance their effectiveness. bccat.ca/pubs/articulationcommittees.pdf
- **Dual Credit: Secondary to Post-Secondary Transitions:** Dual Credit Policy and Practice in BC and Elsewhere: This report surveys the academic literature on dual credit, examines current practices in North America by type, benefit, and issues, and offers some directions to consider. Read the full report and executive summary online.
- **Readiness and Reverse: Further Analysis of the Survey of Movers:** This paper analyzes student mobility pathways of BC public post-secondary students, by region, sector, and motivation.
- **Transfer Credit Assessment:** This report investigates policies and practices of transfer credit assessment at post-secondary institutions in BC and at key institutions across the country, focusing on the timing and issues of transfer credit assessment.
- **A Look Back: A Retrospective Analysis of the Sequence of Life Course Events Over 22 Years:** Read the full report and a summary newsletter on the website.

BCCAT research projects can be accessed at bccat.ca/research/projects

Ongoing Projects of Interest

- **International Student Survey:** bccat.ca/iss

The survey was sent out to students in the Fall of 2014 and a public report will be issued in the Fall 2015. Over 9,000 students completed the survey. Participating institutions have received data on their own respondents. Contact your International Office or Institutional Analysis and Planning.

- **Implications of New High School Graduation Requirements**

BCCAT is collaborating with the BC Registrars Association to develop a summary of current admissions models at BC post-secondary institutions. The documents should support continuing dialogue to maintain smooth transitions for those students continuing into post-secondary in a period of changing curricular and graduation requirements. The work is expected to be completed by April 2015.

- **BC Transfer Students Profile and Performance Reports (2008/09 - 2012/13)**

BC Transfer Students Profile and Performance Reports have been prepared periodically since 1991. The current project covers the 2008-2013 academic years and is based on the data provided by members of the Research Universities' Council of British Columbia (RUCBC). The report will describe transfer students' demographics as well as their success at receiving institutions, including comparison to the success of direct entry students. The work is expected to be completed by April 2016.

Marketing & Communications

- **BCCAT Websites:** The redesign of the BCCAT website is complete and was launched in August last year. The BC Transfer Guide website update was completed in December and is fully operational.
- **New Marketing Campaign & Outreach Activities:** New banners and marketing materials are now displayed on buses, sea bus terminals and sky trains. The same graphics are used on the Education Planner website. BCCAT had representation at Education Fairs in Whitehorse, Vancouver, Victoria, Kelowna and Abbotsford. Attendance is planned at the same venues for this year.

Student Transitions Project

- **International Students in BC's Education System:** This report provides key research findings from a recent analysis of international students studying in the B.C. secondary and post-secondary education systems.

- Post-Secondary Student Mobility Highlights: Based 2002-2013 data, this newsletter describes and quantifies the education pathways of students as they enter, move between and exit B.C. public post-secondary institutions each year.

Both reports can be found at <http://www.aved.gov.bc.ca/student-transitions>

Staff Contacts

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Ms. Ruth Erskine, Committee Coordinator	rerskine@bccat.ca	<i>Articulation Committees, JAM, System Liaison Persons, Transfer and Articulation Committee, Research and Admissions Committees</i>
Ms. Valerie Yorkston, Communications Coordinator	vyorkston@bccat.ca	<i>Communications queries regarding publications, general information</i>

Ministry Adult Education Program Updates

1. Adult Upgrading Tuition and Funding Assistance

- Effective January 1, 2015, British Columbia public post-secondary institutions are allowed to reinstate tuition fees for all Adult Basic Education (ABE) and English as a Second Language (ESL) programs. Institutions have the option to implement tuition fees at their discretion, up to a maximum tuition cost of \$1,600 per semester of full-time studies, or approximately \$320 per course for courses that are between three to five hours a week. For details of the media release, please refer to <http://www.newsroom.gov.bc.ca/2014/12/adult-upgrading-courses-supported-by-grants-for-low-income-learners.html>
- For 2015/16, the Ministry increased the annual budget for the Adult Upgrading Grant (AUG) by 33 percent to \$7.6 million. The AUG allows eligible students in ABE, ESL and Adult Special Education courses at a public post-secondary institution to apply for non-repayable grants for tuition, textbooks, transportation and childcare.
- In February 2015, the Ministry provided \$6.9 million in one-time transition funding to help public post-secondary institutions plan and implement a sustainable funding model for Adult Upgrading programs.
- For more information, please contact:
 - **Bryan Dreilich**, Director, Adult Education, College and Skills Development Branch, Ministry of Advanced Education, email: Bryan.Dreilich@gov.bc.ca.

- **Barb Binczyk** , Senior Policy Advisor, English as a Second Language, Adult Special Education and other initiatives related to students with disabilities, email: Barbara.Binczyk@gov.bc.ca.
 - **Kaylie Ingram**, Senior Policy Analyst, Adult Upgrading Grant Program, email: Kaylie.Ingram@gov.bc.ca.
 - **Tegan Tang**, Education Officer, Adult Upgrading and Community Adult Literacy Programs, and Prior Learning Assessment and Recognition, email: Tegan.Tang@gov.bc.ca.
- Students who have not graduated from high school and who are working toward a British Columbia Adult Graduation Diploma and/or taking foundation-level courses can still take these courses tuition-free in the school districts. For more information, please visit the Province's [Adult Graduation Diploma Program](#) webpage, or email Janine Hannis at the Ministry of Education, Janine.Hannis@gov.bc.ca.

2. Call for Proposals for the 2015/16 Community Adult Literacy Program (CALP)

- We are pleased to invite proposals from organizations currently delivering CALPs and those that hope to deliver these programs in their community, in partnership with public post-secondary institutions.
- CALP information and application requirements for funding under the 2015/16 Community Adult Literacy Program are available through the posted Applicant's Guide and Application Form, posted on the Ministry website, at: <http://www.aved.gov.bc.ca/literacy/welcome.htm>
- **Application Deadline:** Completed 2015/16 CALP applications and all supporting documents must be submitted and emailed to Tegan.Tang@gov.bc.ca at the Ministry by 12:00 PM (Noon, PST) on **April 13, 2015**.
- If you have any questions, please email or telephone Tegan at 250-356-9733.