ARTICULATION MEETING (BCCEC)

MINUTES OF MEETING

Thursday, May 3, 2018 University of Victoria

The meeting was called to order at 9:35 am
1. **Opening** Mike Zastre Acknowledgment of Indigenous Lands
2. **Welcome** Chair CS UVic Dr. Ulrike Stege
3. **Round table of Introductions**:
4. **Approval of Agenda** adding:
    - Plagiarism under other business
    - First programming language
    - Curriculum in High School
   Motion: Adopt agenda Ed Knorr, Rick Sutcliff (carried)
5. **Minutes of Langara College October 201**7
        Small edits need to be done. Mohd A. will update this.
   Motion: Adopt Minutes with amendments Ed Knorr, Diana Cukierman (carried)
6. **Minute Taker**
   Minute Taker will be Catherine Maydan and Mandeep Pannu from KPU
7. **New Business:**
   Ruth Erskine BCCAT Coordinator of 66 Articulation Committees
   BCCAT Spring update (covers her report)
   JAM held in Richmond. Acting ADM welcomed the meeting.
        Recordings available BCCAT, Articulation JAM have video presentations and panel
        discussion.
        Next JAM Vancouver downtown Pinnacle Harbourfront Hotel.
   Transfer Credit Evaluation System.
        Most are course by course, also have block transfer
        Manitoba is creating their own TCES and have created some innovations and the TCES
        for BC has some enhancements.
        Province can have agreements outside of BC.
   Director Articulation Meg of Douglas College
   Secondary to Post-Secondary Transitions
        Updated timelines. Links available for live updates.
        Grades 10-12 awaiting feedback to the feedback from the Articulation reps.
   Transfer Innovations Projects
        Adult Education and course transfer.
        Tourism: Align learning outcomes and current requirements.
   Engineering first year common core implementation
        Published under Engineering Articulation Website
   Indigenous Education Pathways
        Next part is to look at students

Advanced Placement Grading
    Suggestions for common practice. Report about to be published.
International Credit Transfer Process Joanne Duklas
    Research and report to be available soon
BCCAT Website
    Refurbished soon. Communication and Activities.
Education and Career Fairs
Attend to as many places as possible
Field Course Coordination Study
    50% of instructions takes place outside of a classroom and away from an institution's usual facilities.
BCCEC Moodle 3.4 with Meg Goodine Quick Links
    Each committee has their own Institutional Reports
    BCCEC CS will host a Moodle Site for housing all reports and provide opportunities for Forums and Discussions.

David (Selkirk College)
Provide Administrative perspective to the Articulation Committee.

8. **Institutional Reports:**

Paul Franklin: UFV
    BS CS is starting in Fall. Took 10 years to get approval. Enrollments high International and plagiarism. Hire 3 LTA (1 year appointments) and 2 new positions for CS.
David: Selkirk
    Domestic enrolment has declined. International FTE up 15% from last year. Comprise 20% in classroom. Lot of Indigenous projects and courses are being funded. Web and App Design course. Collaborate with VIU replacing the CRP system.
    Starting a new Strategic plan cycle. New Building. New VPs. Language moving from Java to Python.
    Note: Python: 9 Java 10: C++ 6
Bryan Greene: Langara
    Enrolments up International (8 new sections added). Fall will need more Faculty. Overload is pay or bank. Day 3 of new structure. Now from 3 to 5 Deans. CS is now in Applied Sciences. Extra funding for Web development. Data Analytics BS in Bio Informatics.
Ahmed Malki: Alexander College:
    22% increase over last year. Looking for a bigger campus. Issues with some International Students: submitting fraudulent documents (e.g., fake IELTS scores, false transcripts, etc.). Move to Canvas Learning system which they like. Students want more CS courses to be offered. AC has two campuses. Student population is over 2000. Four faculty in CS. Some International students have only seen programming but not actually done programming, this raises a problem with course transfer.

Frank Lu: North Island College

> Some courses under Math and Science. Some under Fine Arts for Media courses. Teach Web and Mobile App development. Quality of grads is getting better. Working under 2 Deans and Frank works under 2 Deans and 3 departments. International Students show up in first week and then disappear. They want to live here and immigrate. New IT program (funding) with programming

How do we motivate them to get credentials?

> (In order to write the final must attend 50% of their classes)(Take participation/attendance.) (Students cannot fail 3 courses or cannot stay in the country). If they fail 1 course it will affect their Visa application. Douglas can get an UN get an F. UN disqualifies them from student loans. F is ok to retake the course. Get fake doctor's note for $49. (Doctor's note must be signed by a licensed doctor in the province done in Ontario). Alexander must have 70% attendance and no doctor's note except for midterm or final).
> Advising is NB. We are not a HS and it is not our job to baby sit them. Why take attendance?

Break:

9. **Fortinet: Ed Hargrave Major Accounts Manager – BC & Territories**:
   Higher Education is important.
   Fortinet wants to hire 1000 developers by 2020. They are already hiring people.
   New building in Feb 2018.
   Fortinet is a Security Vendor who produce firewalls, Hardware, OS, and Technical Support.
   Threat Research has 200 people today. Credited with over 500 zero day threats. Many patents and patents pending.
   Fortinet gets great employees and a great place to set up a lab. Have a presence in the Valley.
   Founded in 2000 in Burnaby.
   Built own Integrated Circuits. Developed own Operating System with a common platform.
   Unified Threat Management. Can put all on a single unit.
   Make switches, firewalls, policy can be applied automatically. Host cloud services in Burnaby and backed up to Ottawa.
   Burnaby has 1000 hires and open to 100 more. Primarily a Dev shop.
   Hire:
   - *Embedded Software Engineers,*
   - *Web Developers, Hardware Engineers,*
   - *Antivirus Analyst,*
   - *Intrusion Prevention Analyst,*
   - *Firmware Developers,*
   - *Mechanical Hardware Engineers,*
   - *Mobile Developers,*
   - *Technical.*

Fortinet takes New Grads: UBC,SFU,UVIC,BCIT, Dalhousie, U Ottawa, Waterloo, Toronto (27)
Most Bachelor degrees. (Work on Masters in Big Data)
Not a lot of Cyber Security so grads need to be trained from the ground up.
There is a need to program Security into our courses.
BC Aware had presentations from TRU.
Challenges with co-op. Not productive with Fortinet. Trouble with NDA and contracts. New HR is working more and more with co-op.
Threat Research: Detect in a timely manner. 5 million devices 2-way conversation connected and talking constantly. See threats developing quickly.
Human Analyst does most of the heavy lifting. People decide if this is a threat. Content Pattern Recognition Code.

Threat Information Service. Providing analysis of data in a web portal. See what other people are seeing. Have weekly and quarterly threat reports.
Fortinet Academy Program has certifications like CISCO Academy. Provide ready to use curriculum, hardware to work with this program. Dalhousie is a long standing member of this program. Close to working with UFV, UBC, SFU and UVic. Fortinet will work with faculty and provide guest lecturers etc. You don't have to sign up to the academy but you can work with Fortinet.
Veterans Program to help educate and employ veterans. Coming to Canada and in the States.

What would a student make upon earning a degree? Tend to pay the same as in the US. Fortinet is competitive and is looking for quality and in some areas they pay above.
Vancouver is a web and design city. UBC Computer Engineering over Computer Science.
Typical Career Path:
> R&D bring in 25 to 40 students every quarter. Visual analysis, malware analysis, support, work on the analyst end of the program. Make it human understandable.
> Average employment 6-7 years
> Can head to California or around the world as a career path.
> Can hire Bachelor or Diploma. Areas like Big Data looking for graduate level people.
> Jenny Peters runs the Academy Program.

10. **Announcement for BCCEC/WCCCE 2019 Spring**
    Donald Acton, Diana Cukierman, Mike Zastre are the core planning committee
    Needed a venue for BCCEC/WCCCE 2019. Approached by U of Calgary, Mount Royal, SAIT and NAIT to host articulation and conference next year in Spring 2019. It is okay for BCCAT to be out of province as is Criminology meeting in Albert this Spring.
    Benefits include: Best practices with Alberta ACT & BC. BCCAT. Could ask the Chair of ACT to attend. Sometimes pushback from Institutions about cost. Compared to Prince Rupert the costs are much less.
    Motion BCCEC/WCCCE 2019 be held in Calgary. Moved Mike Zastre, Brian Greene. carried Probably May 2, 3 and 4th 2019.
    BCCEC Fall 2018 Friday October 19, 2018 BCIT (Burnaby Campus)
    BCCEC/WCCCE Spring 2020 Trinity Western (Tentative)
    BCCEC Fall 2020 open

11. Institutional Reports Continued

Sue Butler: UVic Academic Advisory

    Student enrolment doubled. Students coming back to get a second degree. Quite a few from U of A.

Gara Pruesse: VIU

    Need resources for CS. No new program did not receive a grant. Growth both International and Domestic International is 36%

Saryta Schaerer: Camosun College

    Demand for 2year tech program. Cap 25% for International. High rate of 55 students going into year. CS is increasing as well. Extra programming classes in Fall and Winter.

    Tech program needs to work with Industry and get CS and not IT people.

Patrice Belleville: UBC

    Increasing majors within CS and students switching.

    The department is https://www.cs.ubc.ca/50/ celebrating its 50 anniversary on Friday and Saturday, and there are several invited speakers.

    George Tsiknis is retiring after 25 years in September.

Rick Sutcliffe: Trinity Western University

    Private Christian University. International students are from China. University is tuition driven. Have research grants in Science 3.5 million to hire students. Students have to attend 75% of classes and Faculty have to put this on their Syllabus.

    Trinity has four campuses: Langley, Richmond, Bellingham and Ottawa.

    Motivation pay $22,000 for tuition students are motivated. Math, CS, Math with Computing Started a new dorm for 160 students...tallest modular building in Canada. Sold out already. Faculty workload based on points. No Certificates but looking into this.

    BCCEC history. First was Mathematics, Second Computing in mid 70's, long before BCCAT. Curriculum based on student outcomes from the Senate.

    CS Degree graduated in 2000 and had problems getting jobs. 2010 suspended CS from the program. Program fully reinstated this month.

Catherine Maydan: KPU

    New hires. Program review. Security Symposium June 22, 2018 Richmond Campus.

Simon Li: Douglas College

    Currently has 26 full time regular faculty in the CSIS dept. and we are looking for 3 to 6 more in 18/19. There are about 20 contract sections in Fall 18

    The Chair has been saying no to transfer credit requests to unknown international institutions

Youry Khmelevsky :Okanagan College

    Enrolment is full. New Chair Is James Nastos. All grads are fully employed according to BCCAT statistics. Now they can get TA's for 40 and above students. 8am and night classes to cover students.

    Kelowna is at capacity. First year CS in Vernon and Penticton. These are capped as second year needs space and capacity. CS is Computer Science but CIS is Library Science in USA, what is confusing for the international students.

Joseph Fall: Capilano University

> Capilano 2 years ago. Administration changed stepped down. 2016 new President etc. Good changes. A new STEM with Computing department. Will have BSc Environmental Technology. Data Science Undergrad and Post Bach. Run 16 courses with 35 students.

Diana Cukierman: SFU

> Chair Mohamed Hefeeda is new School of Computing Science Director.

Ken Chan: Columbia College

> Enrolments are up. Rental $700,000 for another floor across from the College.

Bill Klug: BCIT

> Co-Chairs deal with students and other with curriculum
>
> Average GPA moved to 90%. Looking at entrance exams so that credentials mean something. Solve the waitlist problem. CIS moved to downtown but do not have labs. Monitors mounted on the walls and walls are glass for writing on the walls.

Nahid Taheri: College of New Caledonia

> Programming is taught in Java.

Northwest Community College: Ezahran Zahrai

> Name change: Coast Mountain College
>
> Two courses: Introduction to programming in Python. Mexico and India are International Students. Two Faculty. Associate Degree in Science and Art.

Coquitlam College: Megan O'Connor:

> Some courses were cut and other courses added. Mobile Apps with Android. Completely International. Starting to see South Asian population. More plagiarism and cheating.

Dave Casperson: UNBC

> We have been working on the following new programs: • Masters in Data Science: approved by board in Feb 2018; admissions opened for another week with the program starting in Sep 2018 The number of students registered in computer science courses increased by 23% since last year. Our campus has now reached 100% capacity with computer science growing faster than other disciplines.

Larry Maki: College of the Rockies

> Need to deal with Cheating and Plagiarism at a higher level. This is taking up too much of faculty time. Promoting Academic Honesty Task force.

Action: Study underway for International students. Should be a Ministry mandated initiative theme and not a matter of BCCAT. The council takes these issues to be focused.

Mike Zastra: UVic

> Conference WCCCE 2018 there is a paper on Academic Integrity. Paper section D.

Abdallah Mohamed: UBC O

> Switching from Blackboard to Canvas. More interaction choices for students.

Mohd Abdullah :TRU

> TRU Waitlist handling is looking at raising GPA requirement.
>
> Offer courses in the Summers to offload waitlists.
>
> Hiring 3 more positions.

Note: Only UNBC is not hiring for the fall

12. Future Meetings:
    BCCEC Fall 2018 BCIT (Burnaby Campus) October 19,
    BCCEC/WCCCE Spring 2019 Calgary
    BCCEC Fall 2019 open
    BCCEC/WCCCE Spring 2020 Trinity Western University
    BCCEC Fall 2020 open

13. **Motion to Adjourn** Rick Sutcliff, Ed Knorr 4:23 pm.

Attendees:

Name	University/College	eMail
Ahmed Malki	Alexander College	a.malki@alexander.ca
Bill Klug	BCIT	bklug@bcit.ca
Saryta Schaverer	Camosun College	Schaverer@camosun.bc.ca
Joseph Fall	Capilano University	Jfall@capilano.ca
Nahid Taheri	College of New Caledonia	Taherin1@cnc.bc.ca
Larry Maki	College of the Rockies	Lmakia@cotr.bc.ca
Ken Chan	Columbia College	Kchan@columbiacollege.ca
Megan O'Connor	Coquitlam College	Moconnor@coquitlamcollege.com
Simon Li	Doublas College	Lis@doublascollege.ca
Catherine Maydan	Kwantlen Polytechnic University	Catherine.maydan@kpu.ca
Mandeep Pannu	Kwantlen Polytechnic University	Mandeep.pannu@kpu.ca
Bryan Green	Langara College	Bgreen@langara.ca
Gladys Monagan	Langara College	Gmonagan@langara.ca
Jamie MedeaScott	Langara College	Jmedeascott@langara.ca
Frank Lu	North Island College	Frank.lu@nic.bc.ca
Erfan Zahrai	Northwest Community College	Ezahrai@nwcc.bc.ca
Youry Khmelevsky	Okanagan College	Ykhmelevsky@okanagan.bc.ca
Jim Nastos	Okanagan College	Jnastos@okanagan.bc.ca
David Feldman	Selkirk College	Dfeldman@selkirk.ca
Diana Cukierman	Simon Fraser University	Diana@sfu.ca
Mohd A	Thompson Rivers University	Mohda@tru.ca
Rick Sutcliffe	Trinity Western University	Rsutc@twu.ca
Abdallah M	UBC-Okanaagan	Abdalmoh@ubc.ca
Donald Acton	UBC-Vancouver	Acton@cs.ubc.ca
Ed Knorr	UBC-Vancouver	Knorr@cs.ubc.ca
Patrice Belleville	UBC-Vancouver	Patrice@cs.ubc.ca
Paul Franklin	University of the Fraser Valley	Paul.franklin@ufv.ca
Mike Zastre	University of Victoria	Mike.zastre@uvic.ca
Bill Bird	University of Victoria	Bbird@uvic.ca
Gara Pruesse	Vancouver Island University	Gara.pruesse@viu.ca
GUESTS		
Ruth Erkskine	BCCAT	Rerskine@bccat.ca
Ed Harcgrave	Fortinet	Ehargrave@fortinet.com