

**BCCEC ARTICULATION**  
**MINUTES OF MEETING**  
**Friday, October 19, 2018**  
**British Columbia Institute of Technology, Burnaby, BC**  
*Attendance recorded in Appendix I*

**1. Opening**

The meeting was called to order at 9:20am.

**2. Welcome / Indigenous welcome**

The chair welcomed all, and The Dean of the host school acknowledged that the meeting is convening on the unceded lands of indigenous peoples.

**3. Welcome Speech by Bethany Edmunds, Dean of School of Computing and Academic Studies, BCIT**

Ms. Edmunds will attach her report to the minutes.

- The focus on interdisciplinary is important and requires ongoing effort
- The Web & Mobile program is committed to launch in Fall 2019 and does have a work-integrated learning component. The desired outcome will be for designers / developers to work together.
- Plant Operations / Automated Controls (for example) need an interface; online opens up a large security threat. Both iOS and Android are being taught. The school is trying to find areas that are missing in the teaching of web and mobile.
- A report on the current status will be distributed.

**4. Minute Taker**

The minute taker, provided by BCIT, will be Deborah Spafford

**5. Approval of Agenda**

Mike Zastre (UVic) Moved that the Agenda be approved as presented. Donald Acton (UBC) Seconded the Motion

CARRIED

**6. Approval of Minutes of May 3, 2018**

Mandeep Pannu (KPU) Moved that the minutes of May 3, 2018 be approved as presented. Catherine Maydan (KPU) Seconded the Motion.

CARRIED

**7. Institutional Reports - a copy of circulated reports is attached.**

**UBC - Ed Knorr**

- There were questions about entrance to programs/courses.
- 2018: A university GPA of 79.2% was required for admission to most computer science programs, and this is for admission to the specialization, which is separate from admission to UBC. Admission takes place after Year 1 for most of our students; there is no direct admission from high school.
- There is now only one intake per year to get admission to CPSC, and that's in late-Spring, early summer.
- The Computer Science specialization is also available as a second degree program. For most such students, this is through the Bachelor of Computer Science program which is exclusively for students with a prior degree.
- Co-op is very popular: almost half of our CPSC students will participate in co-op and there is a 95% placement rate for job experience.
- The high GPA (about 90% in Science last year) means that for some students, it will be easier to gain admission from another institution (i.e., transfer in to UBC) because the GPA requirement for transfers is much lower.

- Entrance requirements at UBC have changed for students coming in from high school. All grades are now taken into consideration; this should make for a fairer process.
- We have wait lists for many courses; but, we try to move in as many students as possible—and for some courses, all students get in from the wait list.
- UBC plans to hire more staff, sessionals, lecturers, and tenure-track faculty.
- November 15th, Maria Klawe will be speaking at 5:30pm. “Meeting the Demand for Computational Skills”

#### **BCCAT - Mike Winsemann**

- Distributed Fall 2018 update.
- Joint AGM taking place in Vancouver– November 16, 2018 at the Marriott Pinnacle Hotel; The Minister will be attending.
- Working on a pilot with UBC to use the transfer credit system for all (International as well as Canada). Once launched (January 2019), the next step will be to pursue articulation. This opens potential for other institutions.
- The BC Education Planner is now available for Spring.
- Some courses fit into more than one category. We are seeing more and more interdisciplinary transfers.
- All information is on the BCCAT website.
- At the last meeting, there was discussion of articulation thru online learning; Mike was briefed on October 18th; Reported that Ruth has worked out something for sharing documents for articulation and something will be set up; functionality available to the group. A number of schools have adopted this. Details should be published soon.

#### **Tour of Library and Some Labs (e.g., Unmanned Aerial Vehicles, Augmented Reality)**

#### **Institutional Reports**

##### **UVic – Mike Zastre**

- Research faculty being hired
- Python: A report will be produced for next year’s WCCCE. Students who really want to learn to code are using Python to go far beyond on their own. Some things (writing & using functions, for example) are still difficult. Using Jupyter notebook (comes with Anaconda distribution) with good success. Not programming in Python
- Transition into Java: nothing to report yet.
- SFU reported they have transitioned into C++ and with careful explanation, the transition can be smooth.

##### **College of the Rockies - Maki Lawrence**

- Still dealing with International Student issues.
- Looking to add another course, but there are long bureaucratic issues.
- Demand for computing courses, especially from the Business Department, which would like Cybersecurity.
- Lab space is still a problem. Every faculty wants to use the labs. There is talk of ‘bring your own device’ but there are problems with that. BCIT downtown has had some success; the problem is getting licensed software to the students. At UBC, all students get Office free of charge. BCNET has potential resources; one of their mandates is to assist smaller colleges. SFU does ‘bring your own’ but students log into their server.

##### **TRU – Mohd A.**

- Proposal is to introduce new Python course (COMP 1110) in the curriculum.

- Overall waitlist for lower level courses has increased.
- Proposal to change prerequisite from C to C++ for moving to a higher level course.

**Douglas College** – Nelson Eng; Ivan Wong

- There has been a lot of moving around, with the building intended to house the program not ready yet.
- Hired 4 new faculty and will be hiring a few more.
- Offering a 2-year diploma only; students mainly have degrees
- Moving to Windows 10 in 2019 for labs; Tried Citrix with Visual Studio which didn't work.
- 27 faculty plus 4 new hires. A lot of international growth. Doing more last-minute demand sections.
- Machine learning course is being developed.
- Offering a post Baccalaureate diploma for 2 years.

**Langara** – Jamie McKee-Scott / Bryan Green

- Waitlists are starting to come down; limited international students for the fall.
- 3 new faculty (1 full time).
- Curriculum development ongoing.
- Full-tech web development (with ministry funding).
- Bachelors degree in bio-informatics is still pending approval.
- Assistant chair position has existed for a number of years. Have 3 (some part-time) Each has a specialty (scheduling, student advising, etc.)
- Some courses are completely online, and students will write a common exam. Mid-terms are not online. Studies being done on learning outcomes.

**Alexander College** – Ahmed Malki

- 25% increase in students, mostly international. Good demand in computer courses.
- Looking at associate degree in computing.
- Hiring some staff
- 2 programming courses in first year: Python followed by Java, which is better than C++ as a first course.
- Enrolment strong; running out of classrooms

**Coquitlam** – Nadine Turner

- Increase in International students.
- New classroom and 3 computing labs.
- Satellite campus in Surrey.
- Doubled staff in the last 3 years.
- Online Exams:  
5 classes x 35 students  
Discussion about security:  
TRU looks after the security with monitors and Insight. KPU uses LanSchool and browsing history. UBC uses Gradescope and Crowdmark which allows them to scan and mark multiple choice questions online.
- Admissions systems: TRU integrates enrollment and registration (no self-registration).
- Copyright: UBC challenged and won a copyright infringement challenge, so now can distribute most material. There is a risk if a student is not actually in class. Douglas reports a lag between Banner (registration) and Blackboard (classroom).

**KPU** – Catherine Maydan

- Exponential growth and the source of international students is one village only. There is now a cap on enrollment. Other strategies are:

- Cutting back on the number of courses; saying no to waitlists.
- Task force reviewing the language policy for Business School.
- Increasing the level of math.
- Looking to work with Richmond for a diploma program.
- Have 21 full time faculty and area approved for lab assistant. Office space is at a premium. Booking lab time is challenging - some students don't have a laptop.
- No Windows 10 until Spring.
- Standalone PC's in labs.
- Apple collaborating with Richmond to introduce Swift programming language for 'home projects'. BCIT is also using Swift for some things (Swift is similar to Python and is only available on Macintosh).

**UFV – Paul Franklin**

- Computer science BSc has begun. Students began taking courses some time ago.
- Enrollment is full with a large waitlist. There is an influx of International students in January.
- Hiring LTA's and permanent faculty for next year.
- Data analysis certificate still running; looking at possible modifications.
- Need more of everything.

**SFU – Janice Regan**

- Transfers are significant.
- Dual degree program; some teaching done in China last year.
- Co-op Education program is very strong. About 45% of all SFU placements come from Computer Science.
- Hired 5 new faculty last year and that number will be about the same for 2018/2019.
- An active diversity committee; trying to encourage more females and minorities. Strong relationship with Fraser International College (a private college). UBC has studied its Vantage program for first-year international students and found that many of these students are performing as well as, or better than, their non-Vantage counterparts.

**BCIT – this report is not included with the circulated reports**

- Offering a CST program (computer systems tech) and a CIT diploma in Computer IT
- Students in 2 campuses; using open source software. Some schools using Imagine and it was pointed out that Oracle is free.
- Instructors can directly speak with MS and Apple.

**8. New Business**

**8.1 WCCCE Updates & Status – May 3-4, Calgary (U. Calgary)**

- WCCCE 2019 Conference Chair is Ben Stephenson.
- Call for presentations, papers, etc. will go out soon.
- Probably 1.5 days. So articulation will be Thursday, May 2

**8.2 Issues arising from the day**

- All addressed during the Institutional Reports

**9. Other Business**

- None

**10. Future Meetings:**

- Fall 2019 –Douglas College? (or Columbia?)  
Proposed date: Friday October 25th.
- Spring 2020 – UBC Vancouver a possibility. (25th anniversary for WCCCE)
- A host for Fall 2020 is still needed

## 11. Other Business <sup>ctd</sup>

- Moodle website is [onlinelearning.kpu.ca](http://onlinelearning.kpu.ca). If you don't have an online learning account, contact Catherine Maydan, Don Acton or Mohd A. At present, it's a repository. Question: should the listserver be maintained at UBC or on Moodle?
- Text books / open text books:
  - TRU has given funding to faculty to use to develop open textbooks. Objective is to not rely on publisher texts. Most publishers now make an e-book version.
  - There is no sustainability model for this; uncertain how well are they wearing as a pedagogical tool
  - TRU are trying for the first time; were given funds to develop
  - TRU has a link to the grant that's given out.; giving \$6,500 to design a course that links to online material
    - UBC 1st and 2nd year courses don't use publisher texts.
- Plagiarism
  - Various solutions, for example staggering students, getting a TA to help

## 12. Motion to adjourn.

Mike Zastre moved to adjourn the meeting at 3:45pm.

CARRIED

## APPENDIX 1 - ATTENDANCE

### **Alexander College**

Ahmed Malki

### **BCIT**

Bethany Edmunds

Andre Trindade

Mirela Gutica

### **BCCAT**

Mike Winsemann

### **College of the Rockies**

Maki Lawrence

### **Columbia College**

Ken Chan

### **Coquitlam College**

Nadine Turner

### **Douglas College**

Nelson Eng

Ivan Wong

### **KPU**

Catherine Mayden

Mandeep Pannu

### **Langara**

Bryan Green

Jamie McKee-Scott

### **SFU**

Janice Regan

### **TRU**

Mohd A.

### **UBC-V**

Donald Acton

Ed Knorr

### **UFV**

Paul Franklin

### **U Vic**

Mike Zastre

### **Regrets**

Bill Klug, BCIT

Saryta Schaerer, Camosun College

APPENDIX II

Institutional Reports – circulated with the meeting package