Minutes of the BCCEC Fall 2022 Articulation Meeting
(Hybrid format)
October 21, 2022

In-person: University of the Fraser Valley

Virtual: via Microsoft Teams

Hosts: Frank Zhang, Carl Janzen

Acting Chair: Mike Zastre

Minutes: Sarah Carruthers, Mike Zastre

Meeting start: 9:05AM

1. Territorial Welcome and Institutional Welcome: Carl Janzen

2. Introductions

3. In memoriam: Mohd Abdullah

4. Amendments to and approval of agenda & arrangements for recording of minutes (Zastre / Zhang; passed)

5. Approval of minutes from October 22, 2021 meeting (distributed). (Ghosh / Maki; passed)

6. Business arising from previous meeting (October 22, 2021 via Zoom): None

7. Report from BCCAT: Presented by Michael Winsemann (BCCAT Director, Transfer & Technology)
   a. Condolences to committee from BCCAT for passing of Mohd
   b. Shared BCCAT fall update
      https://www.bccat.ca/pubs/Resources/ACUpdate202209.pdf
      • Includes various reports and survey of students
   c. Institutions should cover costs of travel to Articulation as it is built into base funding

d. Hope to be addressed as part of Ministry financial review
e. TCS: Transfer Credit System
    - New dashboard to help track by dept., subject matter, faculty
f. Reciprocal utility tool: transfer agreements aren't always reciprocal, but new system will make this easier to determine/articulate
    - Help find inconsistencies as well
    - To be released this quarter
g. BC Transfer guide deployable widget:
    - Embed transfer guide search in web pages
    - Expected live in November
h. BC Transfer Guide expanded to outside BC (for a few years now)
    - 15 schools, 80,000 equivalencies outside BC
i. Sustainability of BCT System
    - Maintenance issues
    - Aging articulations
        - 47% haven't been reviewed in more than 10 years
        - 29% in more than 20+ years
    - Mechanisms for addressing this
    - Registration for Joint Articulation Meeting (JAM) on November 4 & 5 this year: https://www.bccat.ca/articulation/jam (if you'd like to engage in this process)

8. New business

    a. Discussion regarding leadership structure of the committee (i.e. finding a new chairperson, planning for contingencies and succession). *Slides used in presentation are included at the end of these minutes.*
        - Chair (leadership) discussion, with slide deck reviewing historical practice of choosing Chair
        - Importance that agenda serves all attendees, so typically not driven by larger institutions
        - Currently chair role is vacant, and with no co-chair there is no one to step into empty role
        - BCCAT requires 2 minimum leadership positions (chair and SLP)
        - MZ review of practices of other committees:
            - Engineering, 4/5 year commitment
            - English: new chair elected every year
            - Economics: new chair elected every two years
        - Arguments for chair role being held by +1 person
        - Question: Do we want to move to co-chairs or chair and vice chair
            - How to facilitate succession
        - Motion for next meeting have a vote?
        - Someone take on acting chair until next meeting
        - Discussion:

1. Mike Winsemann: recommends >1 year for continuity. Workload: first point of contact with BCCAT (also with SLP), 2 meetings a year
2. Ashley: agrees that chair and co-chair role would be a good idea, plus interim chair until spring
3. Sarah: possible offset of elections for 2 roles for election
4. Frank: we have never had elections, sees our committee is more of a service role and so longer time would be good idea.
5. Ashley: clarification on what board exists. MZ clarifies that there is no board for committee
6. Saryta: was Mohd's co-chair for a bit. Maybe a chair and administrative role for setting up agendas, taking minutes
7. Frank/Mike: confirmation that this committee doesn't have a formal secretary role, it has always been adhoc
8. Mike: May need to have follow up conversation
9. Frank: do we want to allow nominations
10. Mike: let's consider nominations after the meeting to keep pressure reasonable
11. Diana: wants ensure we have 2 chairs or at least a vice chair to avoid this situation in the future
12. Brad: suggestion of chair and chair in training, offset by 1 year election, rolling taking on of tasks
13. Mike: let's return to this later after everyone has time to think and for discussions (meeting voted "yes")

- Proposed motion for May2023 meeting: **That the committee adopt a co-chair leadership structure, where each co-chair is elected to a two-year term, and where co-chair terms have one-year overlap. Repeated terms are permitted. Division of duties and responsibilities between co-chairs are to be determined each year by the co-chairs**

b. Discussion regarding identifying a candidate (or candidates) for the role of System Liaison Person (SLP)
   - Ask: members asked to think about who they know who might be appropriate and interested. More info is in articulation companion extract document

c. Institutional Reports

Alexander College
   - (Ahmed) about back to normal. All course final exams will be in person, even online courses.
   - New Burnaby campus, new labs are bring own laptop
   - Two indigenous scholarships including books starting winter 2023
   - New Vancouver campus to be built

- Amirhossein: intro to computer systems what language? Not known yet because it is only just articulated by not offered (Assembly)
- Mike: what is the "demographic change" you're referring to in report from 5 years ago? Newer options seem to be driving more graduations from international students

Camosun College
- (Saryta) International number: to deal with deficit tried a winter international intake
- Also plan to grow next year with more international (and domestic)
- MOU with NIC for move into year two at Camosun
  - Suggested NIC adopt their curriculum due to similarity in programs
- Mike: follow up on new proposed minimum grade on final exam and proportion of final grade from exam
  - Academic integrity issues, Engineering pressure about ensuring graduates are going out into industry to known skills
- To handle growth without more facilities, year 2 students will be online
- Catherine: do you have coop? There are postings, but students not getting positions (only out 25%?) competing with other institutions
- Ashley: is there departmental oversight into exams? They pair up on development of exams, and many exams have practical and theory aspect

Capilano College
- (Joseph) shift away from transfer program to Computational Science concentration in Degree, application of computing to science
- Still trying to maintain articulation to old 1st year computer science courses
- 2nd year course is equivalent to DS and Algorithms, but applications are in science
- Keep an eye out for 1st year course outlines for articulation be sure to ask, and for 2nd year as well. Reach out to Joseph Fall if you have doubts
- Mike: follow up about CS1CS2: yes they are still independently equivalent

Coast Mountain College
- (Erfan): only two courses.
- Intro to programming now taught in C for Common Engineering curriculum
- Hybrid teaching: in person with zoom option
- New international students from Nigeria

- Mike: Still in Prince Rupert? Yes, but last year. Follow up about initiatives for First Nations? Math is a challenge, also attendance challenges.
  - Mastery model may be promising??

College of New Caledonia
- (Amirhossein) new hire this year
- Increase in enrollment, about 50/50 dom/int
- New interim Dean
- Mike: how are decisions made about delivery mode (f2f/online)
  - Default is f2f, but preferences taken into consideration with approval of the Dean
  - This term 2 online

College of the Rockies
- (Larry) Approaching pre-pandemic levels
- Challenges with international students:
  - Work permit changes
  - Accommodations
- Articulation: concerns about what courses transfer or not
- Management and Accounting courses: driven by CPA needs
  - For entry into the CPA program
  - Frustrations with teaching Business "Systems Analysis and Design", students lack good assessment of their IT skills/experience
  - Demand in industry for tech skills
- Move away from physical labs, and there was lack of consultation with those who use them. Assumptions that laptops are "enough"
- New course COMP 110: low enrolment, but hopefully will increase

Columbia College
- (Ken) some hybrid mixed offerings
- Mike: question about increase in CS enrollments. Its a good thing, not exceeding capacity
- Space that was shut down over pandemic is renovated and being used again
- Frank: what does your institution mean by hybrid: mostly in person with some online flex

Coquitlam College
- (Frank) no hires planned, drop in interest in transfer courses so many 2nd year courses not needed
- Some merging of courses to simplify some first years
- Desire for more 1st year courses. New course in hardware

- Ismail: question about how fail of portion works, and now with new version of course

Douglas College
- (Stephen) steady enrollment
- Lacking lab resources to support more growth, but new lab facilities coming in 4 years.
- Already offering classes M-S through the evening
- Growth in international: make up about 90% of students
  - Used to go with 2 year diploma, but many are now doing 1+1 to get work permit with 1 year CS cert plus with another cert like supply chain
- New Cybersecurity program, 100% in person in support international students' needs for in person courses.
- Ashley: follow up on whether they got rid of labs. No, just at capacity.
- Frank: difference between 2yr vs. 1+1: two different certifications? Yes. Also the 1+1 is an easier program, less intensive than full 2yr CS diploma
- Ismail: after 1st 1 year program, can they just pick from any program: yes.
- Mike: student success issues with students dropping/failing. To what degree do instructors feel supported? Referring to advising/counseling?
  - Depends: not all students are comfortable approaching their instructors, seem to approach the Chair
  - Work pressures impacting studies
  - Impact of new policy for international students permitting more hours of work, may lead to more negative impacts
- Catherine: does Douglas college have an "Early Alert" system? No: it would go to accessibility services.

Fairleigh Dickinson
- (Unfortunately Sourav was only able to attend part of the meeting before institutional reports.) Chair encourages everyone to review report

Fraser International College
- (Jiang) mainly a pathway into 2nd year into sfu
- Low enrollment in some courses
- Most back to f2f instruction
- Some new cs courses: intro to CS, programming II (a new programming II) to split out CS and engineering
- Mike: what are outcomes for intro to CS course and what tech is used. It is a course from SFU, some history, algorithms. Designed to

attract more students.

Kwantlen Polytechnic University
- (Catherine) Large international, move online for pandemic they were permitted to take some online. But if they offer too many online courses they risk losing access to their own labs
- Newly updated labs with both workstations and plugins for laptops
- Math prerequisites: impacting transfer of CS vs. Info courses outside KPU
- Completed program review and looking at implementing
- Increasing sections of courses, but issues with 3rd students needing 1/2 year courses but they don't get reserved seats so they're not able to enroll
- Lots of online only office hours, empty offices
- Ismail: impact of online offerings and resources, benefits of hybrid
- Mike: congrats to Mandeep on Chair position, follow up on 1st year progress: C++ then Java. What are you seeing in 2nd year as a result?
  - Benefits of switching into new language, a chance for a review
  - Some students getting to data structures with no ability to program
  - C++ kept for engineering students

Langara College
- (Jamie) 56 sections of courses, up 2
- Did see a decline with pandemic, 60 f2f, 40% hybrid/online
- Labs operating at capacity, long waitlists for intro courses
- Challenges with students not developing coding skills in 1st year courses
- Hired 6 term faculty to cover leaves
- 52% international
- Discussion Post? Question about workload differences between f2f and online instruction
- Mike: question about certificate: yes it is designed for professionals to upskill

Northern Lights College
- (Sahlil) New Dean (2nd in 2 years)
- Department down to one member, with Math teaching cs courses
- Enrollment down in game design, but up in IT/Business. Difficulty of courses can lead to drops
- Still seeing struggles due to COVID
- Looking for feedback on course
- Mike: how do library loaned laptops work in terms of software installs? Cannot install or delete laptops, but can run a program via

usb stick

North Island College
- (Ashley) Digital Design and Development program, with structural changes now merging into one department.
- Enrollment stable
- CIS is a bit underenrolled
- How to better make use of existing labs, mix of labs: PC and Mac
- New c++ course for Engineering
- New housing coming
- Mike: how are the labs working out (in terms of mix of OS's)
  - Mac labs added for digital design and front end. Historical reasons, but now there is lacking expertise. So installs/config falls on faculty shoulders.

Okanagan College
- (Youry) CIS program expanding/growing to other campuses
- Vernon Computer Information Systems (CIS) program will be funded again by the College as a test drive.
- Courses offered online from Penticton in Salmon Arm (hybrid mode).
- New Video Game program in approval process. Based on CS and animation programs.
- New initiatives: Data Science and Data Engineering, Cybersecurity
- Staffing issues due to restrictions on sessional instructors, and lack of desire to move to Kelowna for 8 months
- Ashley: why a video game program? Other program chairs had interest, and interdisciplinary programs.
- Appeal of Kelowna due to housing issues in Vancouver, and the program is transferable
- Program growth, and lots of waitlisted students couldn't get seats

Simon Fraser University
- (Diana) university wants to be flexible but also back to in person. Sync in person, and async online as blended option.
- Question about what the outcome will be, what students benefit from which
- How best to test: online, paper, practical
- Growth of students and copy
- Patrice: congrats on teaching award!
- Ismail: importance of interactive learning and how that relates to async online learning. She prefers online sync. Because the value is in the interaction
- NOTE: add a discussion item to Discussion board?

- Amirhossein: rationale behind COMP 165 -> 262? For it to be more theoretical, less applied?
  - observation: no loss of enrolment during pandemic, what was the secret?
  - Show doesn't know for sure, may be due to many variables
- Frank: follow up on async vs. sync online: sync is more in alignment with in person

Trinity Western
- (Herbert) program review done last year, in last stage
- Outreach activities and coding contests.
- Good research output for small institution.
- Mike: question about highschool computer science course? Dual credit.

UBC-O
- (Abdallah) back to f2f for the most part for space restrictions
- Feeling capacity challenges trying to keep classes small
- Hired research chair in HCI, two new courses (1 undergrad, 2 grad) in HCI
- Computer vision courses (2 undergrad, 1 grad)
- Growth
- Mike: what are you seeing in terms of diversity in classrooms
  - Same as historically
  - Girls in Tech club getting more traction

UBC-V
- (Patrice) problems with articulations and last minute requests for transfer
- Importance of articulating courses to UBC-V
- Mike: what is this Workday thing? UK product, cloud platform? Finance, HR, etc.

UFV
- (Frank) structure changes: School of Computing, new official website.
- Two degrees are together in School of Computer rather than old structure in two faculties
- Growth, and 2 new faculty, and possibly 3-4 more
- Enrollment very strong up 37%, up 46% international
- Paul Franklin arrives (former chair)
- Demand exceeding capacity
- Cleaned up discontinued courses
- New coding courses for professional coding certificate

- New Master of Computer Science program
- Ashley: what is driving enrollment? Is it localized to any program? Partly postponed students due to pandemic. This explains jump in domestic enrollment. International is different, increase in south asian students.

UVic
- (Mike) comment about what textbooks are being used for lower level courses, and wondering if the shift away from common text books will make articulation harder/easier?

Vancouver Island University
- New CSCI 159 to increase lab length from CSCI 160. CSCI 160 is now solely for Engineers
- Question from Patrice / UBC-V: Were articulations requests for the CS1/CS2 courses sent out? Answer: Yes.

d. Math 10 vs. Math 11 vs. Math 12 as a CS1 prerequisite? (NIC)
- Widen the breadth of incoming students by lower prerequisite to Math 10
- Larry: COMP 110 is Grade 10 prereq
- Sarah: anecdotal support for success without Math 11/12 in CS1. Math 11/12 requirement can be a real barrier. It is needed for CS program, but not CS 1
- Frank: similar experience, but Math 11/12 is an indicator of success in the program
- Salil: strength in math physics can be important for success
- Mike: maybe provide an assessment that could help determine aptitude
- Joseph: yes, math is needed for CS degree (for completion). But can we see CS 1 as a pathway into CS? Drop prerequisite to Math 11 increased enrollment but didn't negatively impact success rates

e. Institution workloads (NLC)
- Salil: 90hrs for 1 course, 60 for another single course
- Mike: 6 courses per year, but TAs, senior lab instructors. Class size not taking into consideration
- Larry: workload is a common complaint across all departments
- Ashley: 4/term, smaller class sizes (20-30), individualized approach to teaching/design
- Ivan: 4/term, no TAs, max class size of 35. Some lab assistants for 1st year courses

f. Planning for future meetings (Spring 2023, Fall 2023)

- Spring 2023: Propose Wednesday May 3 (with WCCCE 4/5) at UBC-V
- Fall 2023: Propose Friday Oct 20: who would like to host? Langara (yay!) (subject to confirmation room upgrades completed)

g. WCCCE updates
- UBC-V, May 4/5 (Thursday/Friday) 2023
- May be hybrid, but with in person component

h. Other business
- Propose discussion on Indigenization or Decolonization of CS curriculum for May meeting

9. Incomplete articulation requests
   a. This report is now with the meeting documents at our BCCAT Moodle site. Please have a look at the entries relevant to your institution

10. Adjournment: Mike moves to adjourn 16:13.

BCCEC Attendees (October 21, 2022 – in-person & online)

- Mohammad Aboofazeli (Douglas College)
- Liaqat Ali (Coquitlam College)
- Patrice Belleville (UBC-V)
- Brad Best (North Island College)
- Ashley Blacquiere (North Island College)
- Sarah Carruthers (Vancouver Island University)
- Ken Chan (Columbia College)
- Stephen Chiong (Douglas College)
- Diana Cukierman (Simon Fraser University)
- Ismail El Sayad (UFV)
- Joseph Fall (Capilano University)
- Salil Ghosh (Northern Lights College)
- Amirhossein Hosseinmemar (College of New Caledonia)
- Youry Khmelevsky (Okanagan College)
- Brian Koehler (North Island College)
- Marie Lichimo (Kwantlen Polytechnic University)
- Lawrence Maki (College of the Rockies)
- Ahmed Malki (Alexander College)
- Catherine Maydan (Kwantlen Polytechnic University)
- Jamie McKee-Scott (Langara College)

- Abdallah Mohamed (UBC-O)
- Sourav Mukherjee (Fairleigh Dickinson)
- Saryta Schaerer (Camosun)
- Rick Sutcliffe (Trinity Western)
- Herbert Tsang (Trinity Western)
- Nadine Turner (Coquitlam College)
- Michael Winsemann (BCCAT)
- Ivan Wong (Douglas College)
- Jiang Ye (Fraser International College)
- Mike Zastre (acting chair) (UVic)
- Erfan Zahrai (Coast Mountain College)
- Frank Zhang (host) (UFV)

Regrets:
- Reza Nezami (VCC)
- Nadine Turner (Coquitlam College)