

Biology Articulation Committee

Meeting Minutes

BRITISH COLUMBIA COUNCIL on ADMISSIONS AND TRANSFERS (BCCAT)

Meeting Date(s): 14 & 15 May, 2020

Institution/Location: ~~UBCO, Kelowna, BC~~ Online (Zoom)

Present:

Committee Member Name	Institution Name	Email/contact
Mitra Panahi	Alexander College (ALEX)	mitra_panahi@hotmail.com
Larry Anthony	Camosun College (CAMO)	anthonyl@camosun.bc.ca
Eugene Chu	Capilano University (CAPU)	eugenechu@capilanou.ca
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Andrena Heigh	College of the Rockies (COTR)	aheigh@cotr.bc.ca
Sarah Goomeshi-Nobary	Columbia College (COLU)	sgoomeshinobary@columbiacollege.ca
Raymond Wang	Coquitlam College (COQ)	rwang@coquitlamcollege.com
Elinor Hughes Matheson Shamsa Jessa	Douglas College (DOUG)	ehughes5@douglascollege.ca jessas@douglascollege.ca
Sherry Wilson	Kwantlen Polytechnic University (KPU)	Sherry.Wilson@kpu.ca
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Aisling Brady	North Island College (NIC)	aisling.brady@nic.bc.ca
Cindy Broberg	Northern Lights College (NLC)	cbroberg@nlc.bc.ca
Stacey Sakakibara	Okanagan College (OKAN)	ssakakibara@okanagan.bc.ca
Marina Tourlakis	Quest University (QUES)	marina.tourlakis@questu.ca
Stephen Seaborn	Selkirk College	sseaborn@selkirk.ca
Emelia Kirkwood Julian Christians	Simon Fraser University (SFU)	ekirkwoo@sfu.ca
Nancy Flood	Thompson Rivers University (TRU)	nflood@tru.ca
Dennis Venema	Trinity Western University (TWU)	Dennis.Venema@twu.ca
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Tong Pil Min	University Canada West (UCW)	tongpil@gmail.com
Dezene Huber	University of Northern BC (UNBC)	huber@unbc.ca
Greg Beaulieu	University of Victoria (UVIC)	gregoryb@uvic.ca
Maria Morlin	Vancouver Community College(VCC)	mmorlin@vcc.ca
Caroline Josefsson	Vancouver Island University (VIU)	caroline.josefsson@viu.ca
Tara Stehelin	Yukon College (YUKO)	tstehelin@yukoncollege.yk.ca
Carol Pollock	Emerita	pollock@zoology.ubc.ca
Guests		
Melanie Meyers	BCcampus	
Mike Winsemann	BCCAT	

Regrets: Anthony Stea UFV, Cindy Broberg (NLC)

Recorder: Andrena Heigh – (COTR)

Chair: Tara Stehelin (YUKO), **Associate Chair:** Andrena Heigh (COTR)

Welcome: Tara Stehelin welcomed members of the group - Danch'ea ("DON-jah" welcome in Southern Tutchone) and asked that the members acknowledge the traditional territory that they are currently on. I (Tara) am currently on the traditional territories of the Kwanlin Dun First Nation and the Ta'an Kwachan council.

1. **Meeting Called to Order** at 08:41, the morning of May 14th the Biology Articulation Committee (BAC) meeting
2. **Approval of agenda**
 - a. No additions to the agenda
3. **Approval of minutes** of the BAC meeting of 9,10 May 2019 at Langara College
Motion: to accept minutes as presented
Moved: Tara Stehelin (YUKO) Seconded: Maria Morlin (VCC) Carried: Unanimously
4. **Notes/updates – Flexible Pre-Majors (FPM)**
 - a. BCCAT will no longer be supporting FPM agreements, no longer on BCCAT website
 - b. BAC members will still note changes, but less focus will be on FPM going forward
 - c. Associate of Science and other agreements will be the focus of BCCAT instead of FPM
5. **Introductions/Welcome**
 - New members/guests, welcome two new members
6. **Presentation of Institutional Reports**
 - a. Tara Stehelin – Yukon University – official as of May 2020 (celebrations delayed)
 - Fall delivery – Hybrid (online lectures, some f2f labs with distancing)
 - b. Caroline Josefsson – Vancouver Island University
 - Fall delivery – Online with some optional field activities
 - c. Maria Morlin – Vancouver Community College – working on accessibility (facilities and courses)
 - Summer/Fall delivery – Hybrid (online lectures, possibly small f2f lectures, f2f labs)
 - d. Greg Beaulieu – University of Victoria – Bamfield field trip vehicle accident, two students killed
 - Fall delivery – Online lectures almost certainly labs also
 - e. Dezene Huber – University of Northern BC – Strike in fall resolved and semester salvaged. Physics requirements changed from 2 semesters PHYS 100/101 or 110/115 to one semester (PHYS 115) to meet BSc degree requirements.
 - Fall delivery – Online
 - f. Anthony Stea – University of Fraser Valley – Regrets, Chair went through report
 - g. Tong Min Pil – University Canada West
 - Fall delivery - Online
 - h. Sunita Chowrira – UBC-Vancouver – BIOL 153 now BIOL 155 Human Biology no longer has lab component
 - Fall delivery – Online, cancelling some upper year courses
 - i. Matt Nelson – UBC – Okanagan – New course COVID biology
 - Fall delivery – Online for 1st and 2nd year courses
 - j. Dennis Venema - Trinity Western University – New course BIOL 233 Medical Microbiology for nurses with no lab
 - Fall delivery – Hybrid delivery (f2f labs) with prep for pull back
 - k. Nancy Flood – Thompson Rivers University
 - Fall delivery – Online, any f2f delivery requires pedagogical reasoning
 - l. Emelia Kirkwood – Simon Fraser University – New courses Principles of Physiology and Cell Anatomy
 - Fall Delivery - Online
 - m. Stephen Seaborn – Selkirk College
 - Fall delivery – Online with some f2f labs

- n. Marina Tourlakis – Quest University – Currently in bankruptcy protection – future uncertain
 - Fall delivery – Online with pivot to f2f if permitted (block plan facilitates pivot)
- o. Stacey Sakakibara – Okanagan College – Kinesiology program revamp
 - Fall delivery – Hybrid f2f only essential labs, other labs online
- 7. Online Educational Resources (OER) for STEM – Melanie Meyers (BC campus)**
 - Gathering resources for online, virtual, simulation type of labs, currently under review, overview of open source textbooks in BC and usage, funding available to improve sources for wider adoption
- 8. Presentation of Institutional Reports – cont.**
 - p. Cindy Broberg – Northern Lights College – regrets, Chair went through report
 - Summer/Fall delivery – Hybrid, online lectures, f2f labs
 - q. Aisling Brady – Northern Island College – Genetics course adding lab component
 - Fall delivery – Hybrid, online lectures and f2f labs
 - r. Chris Conway – Langara College – 3 new courses BIOL 3100 Plants and People, 3315 Evol & Phylogeny, 3430 Mol. Gen. Fall 2020 new BSc in Bioinformatics 1st & 3rd yr intake
 - s. Sherry Wilson - Kwantlen Polytechnic University
 - Fall delivery - Online, asynchronous
 - t. Elinor Hughes Matheson - Douglas College
 - Fall delivery – prep for online, likely f2f labs
 - u. Raymond Wang – Coquitlam College
 - Fall delivery - Online
 - v. Sarah Goomeshi-Nobary – Columbia College
 - Fall delivery – Hybrid (likely) online lectures with some f2f labs
- 9. Discussion – course delivery in an online crisis environment**
 - **Academic integrity issues with online assessments** – Online proctoring software successes and challenges such as privacy, equal access (technology, equipment) and student collaboration. Multiple choice advantages/disadvantages (question banks, randomization, time stamped pages). Alternative assessment more informative (formative questions, oral exams, take home) – but with time-intensive marking.
 - **Delivery of labs using online simulations, at home kits or f2f** Online options -recording demos, simulations (Mcgraw Hill, Labster, Merlot etc.), foldscope, focus on data analysis, writing and other skills that we often don't have time to develop. Catch students up on technical skills in subsequent years. Hybrid – fewer students, more sections, only essentials, front or back loading, demo scopes with cameras, clear safety protocols, need for plans
 - **Rapid switch to online delivery of courses** Challenging, exhausting, but overall success. Moving to online delivery for fall semester, support for instructors varied greatly across institutions (additional instructors, additional lab staff, additional training, compensation, release, to the other extreme of no support at all)
- 10. BCCAT Report and Discussion – Mike Winsemann**
 - BCCAT is examining how pandemic will affect mobility of students, also impacts of pass/fail (could impact prerequisite requirements)
 - Grade 12 will likely be online 2020/21 currently outlining priorities and will be requesting input from post-secondary (consultation process to come)
 - Articulation Committee project to replace innovation project funding model
 - Review of unmaintained/stale articulation agreements – list to review
 - Concern about rationalizing online labs long term by institutions
- 11. SLP report - Barbara Moon - report on other articulation committees and some links to workshops and other resources available from BCcampus to assist with move to online**

deliveries

- a. Positive outcomes include increased sharing, building community which may persist after pandemic

12. Presentation of Institutional Reports – cont.

- w. Andrena Heigh – College of the Rockies – ASc Environmental Science with new courses
 - Fall delivery – Hybrid, online lectures with some f2f labs
- x. Andrew Taylor – College of New Caledonia
 - Fall delivery – Hybrid, online lectures with some f2f labs, or lab camps
- y. Kirk Hart – Coast Mountain College
 - Fall delivery – Hybrid (likely) – Online lectures with f2f labs
- z. Eugene Chu – Capilano University – New Biol 241 and 242 (Patho 1 & 2) replaces Biol 240, prerequisites for 200 level increased from D to C-
 - Fall delivery – Online, moving Microbiology to spring for better possibility of f2f labs
- aa. Larry Anthony – Camosun College
 - Fall delivery - Online with possibility of f2f labs
- bb. Mitra Panahi – Alexander College tested OpenStax text, will not use again
 - Fall delivery – No decision

13. Discussion

- **International students** – Currently numbers down at many institutions, require asynchronous instruction (time zone considerations), travel restrictions, reduced residence capacity and Visa offices closed present barriers.
- **Asynchronous vs Synchronous** mandated at some institutions
- **Hybrid course concerns** – Safety protocols, PPE, logistics, need for additional sections, space, effectiveness of social distancing in closed spaces, essentials only and online version of any f2f lab required in case of second wave.
- **Online platforms for delivery** – Advantages and disadvantages of various types and confidentiality issues, challenges with student engagement

JAM report (from Tara) – available on Moodle

- **Online labs and transfer** – consensus that online labs will be acceptable for transfer for the 2020/21 school year, to be re-evaluated next meeting. Some exceptions – e.g. Microbiology – these labs are essentially impossible to conduct online. Live document to be shared and posted on Moodle site to keep track of any changes to transfer where online labs are concerned.
- **Status of course Indigenization initiatives** – Still some challenges in science in particular with different ways of knowing, epistemologies, ways of learning, use of local examples, focus on hands on learning - pedagogical better approach than curriculum change - Respect, accessibility, a welcoming learning environment and compassion are key

14. Pending articulation requests – see BCCAT presentation

15. New business

- a) Mail list coordinator 2019/2020 – Tara Stehelin
- b) Election of chair and associate chair

Motion: to elect the new chair and associate chair for next articulation meeting
Andrena Heigh (COTR) and Aisling Brady (NIC) accepted respective nominations

Moved: Sarah Gomesi-Nobary. **Seconded:** Greg Beaulieu **Carried:** unanimously

c) Next Meeting

Location and dates TBA, possibly re-try for UBC-O

Meeting Adjourned at 2:30 pm

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