

**BIOLOGY ARTICULATION COMMITTEE
MINUTES MAY 20TH 2008**

Location: Yukon College
Chair: David Blundon, Camosun College

1- INTRODUCTIONS BY DAVID BLUNDON

WELCOME: DR.KAREN BARNES V.P. YUKON COLLEGE

**2- HOUSEKEEPING: DAVE MOSSOP: SOME PRELIMINARIES RE: WILDLIFE PRESERVE TRIP
SCIENCE WRITER'S CONFERENCE ANNOUNCEMENT
ANYTHING ELSE?**

3- APPROVAL OF AGENDA

**4- APPROVAL OF MINUTES 2007 MEETING- (NOTHING SUBSTANTIVE NOTED)
Any corrections/changes should be sent to David Blundon via email**

**5- REPORT OF 2008 MEETING OF ARTICULATION COMMITTEE CHAIRS & LIAISONS PERSONS BY
DAVID BLUNDON:**

Improving the efficiency of articulation meetings:

- How can institutional reports be harmonized, get a common template developed to be used (we are ahead of the game)
- Staying on the agenda; this is usually done at biology articulation meeting
- How to make meeting successful; how to keep minutes straight is issue;
- Mike Winseman (BCCAT) will add more to this topic during his presentation

6- SYSTEM LIAISON REPLACEMENT (DAVID BLUNDON)

A person cannot be found; maybe we should go to a smaller institution to find this person. Asked for suggestions; Rob McGregor mentions that he knows a dean who might be interested. Frank Williams asks about the duties of a SLR. (this person provides an administrative level perspective, knowledgeable of articulation, gives advice about issues and costs, funding, etc)

7- BCCAT UPDATE (MIKE WINSEMANN, TRANSFER & TECHNOLOGY MANAGER BCCAT)

- Upcoming year: expanding the transfer system and reducing articulation:
 - Expanding the transfer system: All institutions should be sender and receivers. Sending institutions becoming receiving institutions- and vice versa; generally senders want to be receivers, and research universities do not want to take on the sending roles- Institutions should do a self study to determine their role and then apply to BCCAA
 - Transfer guide "Best Practice Guide for Receiving Institutions" will be published this month. Made for sender institutions that want to take on a receiving role. The guide details the expectations (cost, etc) Includes a check list of the things to accomplish in order to become a receiver

(BCIT is in the process of becoming a receiving. Best practices guide will be available both in print and electronically on the BCCAT website- the document will be sent to the chairs of committee

- Expanding the transfer system to out of province Institutions:
(Athabasca University has petitioned to be part of the BC transfer system)
 - Out of province institutions will need to show a business case to justify their demand
 - The implication of out of province institutions will be considered in the articulation process

- Reduction Articulation Act. BCCAT has been exploring strategies to decrease request for articulations:
 - There are lots pending articulations requests(backlog) (eg. 147 biology course pending)
 - There is a lack of response from both senders and receivers because there a too many requests, and that articulation is not done in a proper manner
 - Strategies for reducing the requests:
 - i. trying to eliminate unnecessary request (eg. request done to institutions that do not have an equivalent course
 - ii. time limits on requests (1-2 yrs)
 - iii. role of the articulation committee: set aside some time at meetings to deal with the backlog (a list of pending requests could be provided)

- Changing mandate of University-College. BCCAT is watching to see what the effect on articulation is going to be over the coming years
TRU (Eric Tittley): there has been no change in student mobility since the change

Biology Transfer Groups:

- 1) Field course grids has not been updated since 2002
- 2) Biology Transfer Grid has been updated 2006/2007 Are there any plans to do an update as of this year? There are notes on the grid

Carol Pollock (UBC) : Asked members to check course listing and agreements and to submit changes to the grid by June 15th. She will submit it to BCCAT. Will also update the field course, if committee members send her the changes. No changes have to be made in regards to the alphabetical order (caused by institution name changes) -- Mike Winsemann (BCCAT) will make the necessary changes. Field Course guide can be done as well. The *receiving* institution should send any changes to articulation.

8- INSTITUTIONAL PRESENTATIONS (UNIVERSITIES FIRST)

1. UBC- (Carol Pollock)

No major curriculum changes from 2007- no requirement changes

- Correction: 203 microbiology: 1 credit
- Chemistry; now only 1 organic chemistry in 1st year
- Budget cuts; 1 zoology position dropped, and BIO 240 has been cancelled
- There has been money allocated for 3rd and 4th enrolment
- There have been no changes in the requirements for 3rd and 4th yr

2. SFU- (Emelia Kirkwood)

- Enrolment in the hand out is the enrolment in 2007
- (In the hand out for SFU hours (per week) are in the order: lect.-tut.-lab).
- MBB 231 will be offered in the fall
- Biology 102; ten sections a wk
- New Chair of the department: Felix Breden
- New! Genetics major (multidisciplinary and will include MBB, Biology) Collaboration between SFU and Genome Science.
- In response to question from Pam McDonald to MBB transfer credit changes; transfer MBB 221- MBB 231 (credits will be transferred)
- Labs are still held in Burnaby
- Writing course ("W" course) seems to help the students but it is really too soon to tell

3. UNBC; (Dezene Huber)

- Biology 110 offered via the web
- Biology degree 2nd yr students were required to take two of three of the following BIOL 202, BIOL 203 and BIOL 204. Now all three are required.
- BIOL 424 has been changed to BIOL 312 to encourage students to take the course in 3rd year.
- BIOL 210 is dropped as a pre-requisite for BIOL 411
- Since there are no electives in 2nd year and therefore course-load is appropriate
- June Williams (TRU Open Learning) asked if the BIOL 110 course are all web based. Dezene will get back to June Williams) about this matter.
- Most of the second year courses have labs .

4. UVIC- (Greg Beaulieu)

- Issue with enrolment going down; trying to find strategies to increase enrolment/retention

- Lack of qualified people to teach; many course are taught by sessionals
- The position listed under Academic Program Review are not likely to be filled soon
- Proposed new second year course-organismal biology- taught by 6 or 7 faculty members. (see notes handed out). This will not be required for any courses-no changes to articulation. A well-liked faculty member will coordinate and oversee the scheduling of the 7 instructors
- Budget cuts were in response to decreased funding from government, which is investing more in technical education

5a-TRU – (Eric Tilley)

- No major changes for biology curriculum, but changes may come after an upcoming departmental consultation (first year CHEM might be changed)
- Challenge: finding qualified sessional, (creating a real problem in Kamloops) the result is cancelling, rescheduling and overloading.

General discussion followed and smaller institutions all agreed that finding qualified applicants in communities outside the larger centers is difficult.

5b TRU Open learning (June Williams)

- Most of the course offered are 1st and 2nd yr, and some 3rd yr
- Enrolment is down overall from peak numbers
- Labs offered during the summer in Kamloops (used to be offered all around the province)

A general discussed followed about online course and preventing plagiarism.

6. UCFV (Barbara Moon)

- Increased enrolment in both lower and upper levels (but summer enrolment is down)
- Lab technicians are needed (the current lab tech are overworked)
- There is an ongoing analysis of the courses offered; there is pressure to cut back on the number of labs offered. However, good feedback from employer and graduate schools prevent the cut.
- Sustainability themed courses program not going ahead currently, but there is still effort to get this program going
- Move evolution down to 3rd year

- Barbara Moon (UCFV) I interested in knowing how credits are allocated towards supervising research in other University-Colleges
- Having a hard time securing funding for research-looking for ideas about securing funding
 - Allan Gibson (Malaspina) 6cr. Crouses-1 h per student (taken during the contract year) (every student is required to do a project)
 - (David Blundon (Capilano); similar to Allan Gibson (Malaspina), contact hours

7- TWU (Denis Venema)

- Contact information for TWU is online
- TWU is hanging on to the labs
- TWU is not under provincial cut-back issues
- Enrolment; low spots 3rd and 4th yr; 1st and 2nd yr okay
- 2 new faculty
- New microscopy tools

8. Malaspina (Allan Gibson)

- Name change Malaspina to Vancouver Island University
- Articulation 1st year content to bring in line wt BC. (1st yr zoology and Botany courses prepares students poorly)
- Scheduled for 2009, move BIOL 1222 to 2nd yr and new 1st yr major biology course. –to achieve this biology major statistic requirements will be reduced from 6 credits (2 stat course) to 3 credits (1 stat course (biometric). Allan Gibson asked for feedback from other member for the committee about this. Feedback:
 - (TRU) Eric Tilley; 1 semester of biometrics might be adequate depending on whats covered
 - UVIC (Greg Beaulieu); 3 credit stat course
 - Carol (UBC) Offers a 2nd yr stat course or a 3rd yr biometrics (3 credits are required)
 - SFU (Emilia Kirkwood) 3 credits stat course offered by statistics, students may take more
 - UNBC (Dezene Huber); 2 stat courses are required (1 basic stats course and 1 ecological analysis course)
 - UBC-O (Blythe Nilson); Biometrics course - 4yr move to 2nd year to encouraged students to take it earlier
 - Camosum College, (David Blundon); Environment students take 2nd yr stat from the mathematic department; Ecology stream students *need* statistics.

9. UBC-O (Blythe Nilson)

- In the outline: hours: lect-lab-tut
- In the outline; BIOC should read BIOL

- Enrolment increased but not enough to meet government targets
- All biology course are included because they have been a lot of changes
- New course are denoted “NEW”
- New course; some fourth year courses are cross-listed as graduate courses. In these courses graduate students are evaluated differently than fourth year students.
- Requirement (cut off grade) will soon be reduced from 75% to 72%
- 12 graduate students, including both MSc and PhD students
- Growing enrolment in biochemistry, but there is only one lab technician
- The workload is down in terms of course number but up in terms of students
- Are 1st yr students required to wear lab coats? Asked for feedback: discussion ensued; majority said that lab coats and proper footwear were required at all times, or for labs where protective wear is required.
- Having difficulties hiring; having a hard time finding qualified applicants

10. Kwantlan (Pam McDonald)

- New name: from Polytechnic to University – still confusion on what this new name *means*
- Enrolment; numbers are steady
- BIOL 1110 (is a pre-requisite for the nursing program) - BIOL 1210; ?????

11. Camosun (David Blundon)

- Asked committee members to always include hours in the program outlines forms (lectures and lab)
- Enrolment is declining- affected by UVIC
- Budgets cuts –funding appears to be moving to the technical programs, but Camosun is still receiving good funding for the time being
- In Biology, enrolment is down
- Hybrid format of the program outlines form is good and seems to be well liked. Asking for feedback to standardize the grids. A good example of things that can be done to streamline the program outlines forms would be to reduce the contact list and referring to the website, as TWU (Dennis Venema) has done. The notes are good (approved by the minute taker)
- Introduction to the topic of having some courses being taught in high school- will be discussed later
- Advanced placement biology labs for science oriented high schools (lab component lacking) the labs are offered at Camosun (students pay tuition and registration fees to the college). Students may then challenge the College lab exam and get credits. (Will be discussed later)
- Pam Macdonald brought up the issue about transferring credit issue for courses taught by high school teacher

12. Capilano College (Marja de Jong-Westman)

- New status/Name University (Teaching University) the new status is being very well accepted by the local community
- Capilano has been offering a bachelors degree for over ten yrs
- Enrolment is down
- 2 faculty members have retired and will not be replaced
- Hours; used to be 4 hours lecture now 3hours lecture + 1 hour of tutorial
- New course (of interest to institution that are focussing with nursing, health science and dental hygiene prerequisites: The Biology 104-113 package that was usually transferred for health sciences is being replaced by Biol 112-113. This will become the new preferred package, and is currently being articulated. The old package (104-113) will be considered as equivalent for a number of years. 104-113 will be for the non-major students.
- New nutrition course BIO 202 (not listed-not offered yet) does not have labs. Asking for articulation. (Targeting transfer to UBCO and TRU open learning.)
- BIO 106-107 is intended for students that do not have BIO 12 or CHEM 11 (more lecture hours week) It is equivalent to BIO110 (should be taken out of the grid)
- New agreement in being developed for accreditation with institution in the United States
- Asking for feedback about associate degree package –no feedback was provided
- Asking for information on why different receiving institutions seem to be crediting students differently. (Discussion followed) The outcome was that all receiving institutions transfer student credits the same way. The grades from the sending institution are not used to assign a GPA at the receiving institution.

13. College of Caladonia (John Neumann)

- No significant change in the biology course delivered
- Employment situation; good responses are currently being seen
- Main challenge is enrolment (in technology and science) Health science and trades enrolment is up.
- New program Medical Lab Technician, 16 seats currently, 24 next yr
- Forestry program has been cut
- Asking for feedback about microbiology textbook – Ian Dawe, Rob, Barbara Moon (SCFV) and John Krisinger volunteered to provide information.

14. College of the Rockies (Betty Mosher)

- Enrolment is down (biology is remaining stable but it is lower than in the past)
- 1 position lost (retirement not being replaced)
- Are managing to keep labs and 2nd year program with very low numbers
- New BIO 181-182 for nursing students (has been running for a yr)

- Still fighting to maintain lab components

Allan Gibson (Malaspina) suggested that a possible explanation for the low enrolment in 2nd yr is that students are leaving because they may not be able to transfer their 2nd credits from the College of the Rockies to move into a 3rd year in a receiving institution.

Discussion followed about different ways that smaller colleges are trying to offer 2nd year course in site of very low enrolment. The point was made that in the smaller communities, students simply leave the smaller colleges to “move away” and therefore do not enrol in 2nd year at the smaller colleges.

Discussion followed about the minimum number of students different institutions require in order to offer a course. Numbers vary greatly depending on the institution.

15. Colombia College (Keng Graal)

- No changes to course
- Question to UVIC about the decision on provincial exam for bio 12. (UBC and SFU are keeping it. UVIC-not sure; will have to check. UNBC (might be optional)
- Enrolment is down, and this might be due to the receiving universities dropping their standards and are therefore accepting more students. Are the receiving universities seeing a drop in the quality of students? Discussion followed; some institutions have noticed a drop in the quality of students, low literacy and numeracy levels and a strong sense of entitlement. Other institutions have not recorded a change because requirements changes are too recent.

Discussion followed about the poor writing/comprehension skills of current students

16. Coquitlan College (Bruce Millen)

- Enrolment is dropping but chemistry, physics and biology are maintaining
- Visa for international students take too long as compared to other receiving countries such as Australia and the US (5-6 months in Canada vs days)
- Foreign student prefer to go to the bigger institutions such as UBC, SFU
- The smaller institutions may be better for foreign students to start with, before going to the bigger institutions
- BCCAT (Winsemann) is preparing a package to introduce foreign students to the BC institutions and the transfer students
- Endorses provincial exams-they are good
- In the program outline; hours = lect-tut-labs

17. Douglas College(Rob McGregor)

- There have been no majors budget cuts and no faculty loss
- There actually a period of growth in the biology department- 3 positions are advertised
- Health science program degree program is responsible for some of this growth (some course are delivered by the science program)
- Bachelor of physical education and coaching has also contributed greatly to growth (5 3rd yr course are delivered to this program)
- The textbook for human anatomy; still using Tortora but might be switching to Marieb and Hoehn
- New facilities; teaching labs
- Transferring 3rd year course- has not received any new information UBC so far BCCAT (Mike Winsemann) noted UBC has a policy that they will not articulate upper level courses, ie they will only give credits for 1st and 2nd yr courses, however, sometimes some 3rd year courses might get 2nd year credits
- These courses were not designated for transfer, they were designed to for the Bachelor of physical education and coaching program; it is now being discussed to possibly transfer these course with Fraser Valley University

18. Langara College (Frank Williams)

- The project in Tanzania is continuing-several faculty involved in the project
- Second yr enrolment is strong
- 1st yr enrolment is lower, nursing courses still have strong enrolment
- Great achievements have been made to make the campus more sustainable (transportation/heating wt geothermal/recycling program)

19. North Island College (Christine Hogson)

- Courses-no change
- Lots of cuts in faculty; UT program may decline as a result
- BIO 170-171 not offered in 07/08 but might be offered next year at Port Hardy campus
- Ethnobotany (botany and pharmacology) very challenging; focussing on cultural, nutritional use of plants (main focus is not medicinal purposes)

20. Northern Lights College(Cindy Broberg)

- Enrolment low

- There have been many faculty cuts; results in increased workloads for remaining faculty
 - 1 full time biology/chemistry faculty was cut (affects work load of remaining faculty)
 - BIO 204 will probably be cut (low enrolment)
 - BA (AA); student that do a first year general science program can obtain, for example, a “pre-medicine” certificate
 - Cutting chemistry from Dawson Creek, offered in Fort St-John
 - Biology course now available live in Dawson Creek, and via videoconferencing in Fort St-John
 - Biology labs offered at both campuses

21. Northwest College (John Krisinger)

- Little change has happened at Northwest
- Labs are 3 hours
- The enrolment in the program outline hand out is the *combined* enrolment of the 2 campuses
 - Nursing program (recent) (has created a boost in enrolment) 24 student at 1st yr intake (6 of which are set aside for First Nation students)
 - Funding is good in part due to First Nation funding
 - New building acquired by the college will house the *Center for aboriginal health, wellness sports and recreation education*-(see flyers provided)
 - Starting a new teleconferencing system for Prince George and Smithers campuses
 - There very few First Nation student enrolled in the regular sciences programs

22. Okanagan College (Ellen Pedersen)

- The enrolment in the program outline hand out is the *combined* enrolment of all campuses
- Kelona Campus has good enrolment, while Vernon is lower
- 1st year is offered at all campuses while 2nd yr is offered at Kelona and Vernon only
- Human Kinetics diploma offered by the Biology department (offered in September)
- Conservation Technician program is being developed. It is intended/aimed at First Nation students.
- New course: BIO 224 (2nd yr Genetics) wt alternating labs (awaiting approval)
- New course: Biochemistry offered last year in Vernon (articulated).-should be added to the grid.
- Program is being slow to develop due to challenges involving a course focussed on comparing knowledge the secrecy around First Nation traditional knowledge

Discussion followed around the topic of the protection of First Nation traditional knowledge (difficulties around teaching traditional knowledge) and the fact that First Nation students are not interested in the pure science program

23. Selkirk (Ian Dawe)

- All biology labs are 3 hours; except BIOL 050 and 051 which are 2 hours
- Five 2nd year classes that run 6 labs instead of 12 labs (BIOL 200, 202, 210, 212 and BIOL 214 (because of budget cuts)
- Second year are stable but low; the projected enrolment might not be accurate
- Biology department is being “chipped” away. eg Kinetics program has been cut
- First year biology textbook, asking for suggestion to replace *Campbell* with another textbook or using a course package instead of a textbook (would using another textbook or no textbook affect articulation):
 - i. UBC and TRU have switched to Freeman.
 - ii. UBC has found the transition from Campbell to Freeman to be smooth
 - iii. Freeman appears to be more inquisition based
 - iv. Kwantlin (Pam MacDonald) have review three textbooks and have picked Campbell
 - v. UVIC (Greg Beaulieu) have reviewed 4 textbooks and have picked Campbell
 - vi. Students appreciate having a textbook since much more information is available as compared to course notes
 - vii. John Krisinger suggested online textbook called “Kimbal biology pages”

Discussion followed around the stability of using online texts

24. Vancouver Community College (Mike Robinson)

- No changes but less sections offered than previously
- Lots of job insecurity

25. Yukon College (Dave Mossop)

- Community Campuses (6) are run all over the Yukon
- Grade 12 biology has been offered by video link (including some lab activities) was offered for the first time (went well)
 - All the sciences are now called “applied sciences” and will now be administered in conjunction with the Trades department.

- Lots of students would like to stay at the Yukon College for their second year biology students do not stay since other second year science courses such as physics and chemistry are not offered. (Carol Pollock suggested that second year courses that are not offered at the Yukon College might be taken by video conferencing, so that second yr students may stay in the Yukon)
- A bachelor degree in science is in the works in coop with an outside Univ.
- A bachelor degree in social work/education are already offered (partnership with other institutions)
- The degrees are granted by the partnership institution
- Enrolment is dropping and effort is and should be invested in increasing first Nation enrolment
- Second year courses are being developed (ornithology and botany already offered) these courses have great enrolment, partly due to enrolment by individuals already in the workforce
- Prerequisite for ornithology might be first year biology to ensure that people enrolled in the class have a background in biology

Discussion followed around the technology and advantages of video-conferencing

26. Alexander College (?????)

Biology 100 will be offered in this fall. (advertising for an instructor currently)

- Web based labs for non-major student-looking for feedback from institutions that have experience with web-based labs

Discussion followed about web based labs (SFU has offered home-based labs; they lend microscopes) (Frank William discussed the BCIT first year labs on CD)

9- DISCIPLINES EXCEEDING 3 h PER WEEK LECTURE ALLOCATING CREATING AN UNFAIR BALANCE (JONH KRISINGER)

Chemistry department teacher have expressed the desire to increase the lecture hours from 3 h to 4 ½ hours per week (without credit increase). The idea has been rejected. Propose to write a motion to cap off hours of lectures a week. Would appreciate feedback on this topic. All agreed that other colleges in BC do not have 4 hours of lecture a week for chemistry.

- Yukon College (Dave Mossop) indicated that a similar trend in occurring with physics and chemistry
- Rob McGregor (Douglas College): 2 h blocks at Douglas (4 h min) and cannot reduce hours. Is not in favour of putting a cap on hours
- June Williams (TRU Open Learning) pointed out that the number of weeks of teaching should be compared (some have 13 weeks, some 14 weeks)
- Marja de Jong-Westman (Capilano) suggested that perhaps the course content of each course should be evaluated and should influence accreditation

- Conclusion: not all institutions have 4 hours of lectures, a cap *will not* be set to limit the hours of lectures (motion denied)

10- FIRST YEAR BIOLOGY CURRICULUM CONTENT (CHRISTINE HODGSON)
(this topic was covered at end of day 1 and beginning of day 2)

Presentation of a document illustrating the data collected last year on the topics covered in the 1st yr biology major course. (The topic listing is based on the Campbell textbook.)

Interpretation (1st page): 1 = all subtopics covered
 0 = none of the subtopics covered
 0.5 = some sub-topics covered

(2nd page) E = essential
 I = included
 0 = not covered

- The document needs to be looked at as an unfinished work; the totals can be wrong as document was hastily assembled
- The conclusion is that there is a lot of agreement between the different institutions
- All agreed that this is a valuable tool
- Maybe the skill sets acquired in first year biology should be compared in a similar way- idea confirmed by Barbara Moon (SCFV) and David Blundon (Camosun)
- Carol Pollock (UBC) asked if DNA replication is covered in 1st year; general agreement that DNA replication is covered. Only a few institution cover experimental evidence of DNA replication, some institution cover the topic in cell biology.

Skill Development Objectives for BIOL 112-121 (see hand out)

Discussion followed around the skill sets students should acquire in first year, with emphasis on writing skills and ways to improve students writing skills (peer reviewed writing was suggested by Carol Pollock (UBC))

11- SUGGESTION FOR CELEBRATING DARWIN'S BICENTENIAL FEB 12, 2009 (IDEA SHARING)
 (BARBARA MOON)

- Stage performances (Greg Bole; Bole@zoology.ubc.ca)

- Public lecture in Abbotsford's
- Student competition
- Poster contests
- Book; "Your Inner Fish" by Neil Shubin
- "Biology before the Beagle" website. It follows the progress and has many interesting links
- Book displays of the Origin of the Species (first edition)
- Library could have links to interesting websites (Cambridge has good site)

12- A REPORT ON POLITICAL ACTION (SEE ATTACHED OPEN LETTER) (BARBARA MOON)

- Discussed the context and response to the open letter
- Encouraged political action/response to anti-science discourse
- Pam MacDonald added that emailing and writing as a form of protest is often ignored while a personal appearance often has more weight

13- COPING WITH A LONG-TERM CUTBACK ENVIRONMENT (IDEA SHARING/BRAINSTORM) (BARBARA MOON)

How to deal with very reduced budgets. How are other institutions dealing with cuts?

- June Williams (TRU Open Learning) mentioned that some communities have encouraged public involvement to protest the cuts-go to the local city counsels etc. Has been successful.
- Carol Pollock (UBC) every department are cutting; some courses are cancelled and some retirees are not being replaced; next year bio labs may be cancelled
- June Williams (TRU Open Learning) TRU has been strategic planning and one of the suggestions was to introduce virtual labs. Need to make sure this does not happen.
- Ian Dawe (Selkirk) mentioned the proliferation of management positions
- Barbara Moon (UCFV) confirmed the trend towards cutting labs to save money

Discussion followed with lots of examples of the effects of cutbacks; no concrete solutions were provided to cope with cut backs

14- CAMOSUM COLLEGE FIRST YEAR A&P (HUMAN ANATOMY) LECTURES TAUGHT IN HIGH SCHOOL (DAVID BLUNDON)

- 1st year A&P for non-majors; creating a partnership with high school system. The lectures are taught in the high schools and the labs are performed at the college. (see hand-out)
- Selkirk has a similar program (see web-site)

- Has caused some problems in the biology department (in one of the campuses particularly)
- This partnership has been expanded to other disciplines
- The high school students take the same labs as the college students
- The students already have grade 12 biology
- The advantages include that high schools are exposed to a real biology labs and gives high school students exposure to the college, and students might be more inclined to attend the college in the future. Students benefit by performing labs, which they might not benefit from in high school.
- Keng Graal (Colombia College) spoke of a similar program at Columbia College
- Pam MacDonald (Kwantlan) brought up the issue with students that do not have grade 11 BIO, but do have grade 12 students are therefore lacking the biodiversity training
- David Blundon (Camosun) confirmed this aspect
- Carol Pollock suggested that students should be required to have BIO 11 instead of BIO 12, but this is not possible because of the provincial exam. If exam was cancelled, this could be possible to required BIO 11 or BIO 12
- Both course (11 and 12) cannot both be required because of limiting factor in small communities
- credits are not given to students (at UBC) for A&P that have been taught biology in high school teachers because the teaching standards are unknown (confirmed by Emilia Kirkwood (SFU) and Eric Tilley (TRU))

15- NEW UNIVERSITY STATUS

- Allan Gibson (Malaspina); the change in status has been eagerly accepted (more and more faculty members are applying for ENSERC. Research was not a mandate in the past and this has not changed, it's still a struggle. There is not necessarily more money for research
- Eric Tilley (TRU) warned about problems/challenges arising from the different ranking system. Tenure depends on publications which can be hard without any resources for research.
- John Kisinger (Northwest College) asked about the reason for the name change. The university/college name was poorly recognised/understood and the change was mostly for marketing.
- Pam McDonald (Kwantlan) the role/mandate is still confusing and research has been entirely doing surveys
- Marja de Jong-Westman (Capilano) teaching vs research university dichotomy will be discussed next year
- Rob McGregor (Douglas College): universities should have a research faculty as students must be trained in research procedures in some program
- Eric Tilley (TRU) if research training is to happen, teacher will have to see decreased workloads

- Rob McGregor (Douglas College): ENSERC (community initiative program) will fund decreased work loads to promote research
- Barbara Moon (UCFV) explained the various sources and struggles/challenges for research funding at Abbotsford

16- HOW ARE TRANSCRIPTS FROM FOREIGN UNIVERSITIES EVALUATED FOR TRANSFER CREDITS, ESPECIALLY FROM INDIA, CHINA? DOES ANYONE REQUIRE EVALUATION FROM AN ACCREDITATION SERVICE? (PAM McDONALD)

- Articulation: request for transfer credits for full degrees credits from foreign universities/institutions and World accreditation services
- Emelia Kirkwood (SFU) has come across world accreditation services
- Carol Pollock (UBC) gets translation and compares. Usually student is credited with 2 ½ yrs equivalence. Try to accommodate the students
- Emelia Kirkwood (SFU) case by case basis
- Mike Winsemann (BCCAT); International Credential Evaluation Service (ICES)- is based at BCIT. They do reports for foreign credentials mostly for employment purposes, but might be of use for receiving institutions. There is a cost associated with this service. Referred to web site: [bcit/ca/ices](http://bcit.ca/ices).

17- TIME LIMITS FOR TRANSFER CREDITS. DO YOU HAVE ONE? IS IT SET BY THE INSTITUTION, DEPARTMENT, DEPARTMENT, REGISTRAR'S OFFICE OR ARTICULATION REPRESENTATIVE? (PAM MACDONALD)

- UNBC- 10yrs
- TRU- 5yrs (Math 2yrs only)

18- SHOULD BCCAT GUIDE BE CHANGED TO INCLUDE THE TRADITIONAL UNIVERSITIES AS SENDING INSTITUTIONS? (PAM MACDONALD)

Transfer for students who are from the university to the colleges –lots of request for transfers from students going in this direction. Shouldn't all universities be considered as sending institutions so that students could access the information on transfers more easily?

- Mike Winsemann (BCCAT); It is up to the individual universities to request to be sender institutions; they are eligible to do this now. Individual universities that would like to take on a sending role should communicate with their registrars, and then BCCAT will facilitate the procedure. Existing databases can be used, the data has to be uploaded into the guide
 - Denis Venema (TWU) mentioned that some institution might be unwilling to be senders by fear of losing student retention
 - Mike Winseman (BCCAT) mentioned that the same argument can be applied to colleges. The students are going to move anyway, so the grid might as well be updated so that students can use it

- 19-** WOULD TRANSFER CREDITS BE GIVEN FOR A SECOND YEAR COURSE WITH TWO HOURS OF LECTURE AND FOUR HOURS OF LAB? (PAM MACDONALD)
Microbiology course 2 hours of lecture and 4 hours of lab- would this be accredited?
- Would depend on the course- the course would be accredited but might get fewer credits-
 - Denis Venema (TWU); has different options for students. For example, may ask student to complete the labs before they obtain the credits/transfer
 - Carol Pollock (UBC) applauded other institution for keeping their labs. If students do not obtain transfer credits from institutions that do not have labs, then they will voice their concern and complain, hopefully forcing all institutions to offer labs.
 - Marja de Jong-Westman (Capilano College) It's a source of concern that UBC has dropped their labs because this might be used as an example and other institutions might be pressured to drop their labs also.
- 20-** TWU AND VENUE PLANNING FOR 2009 MEETING (DENNIS VENEMA)
May 13 and 14th 2009
- 21-** UBC-O 2010 MEETING (BLYTHE NILSON)
confirmed
- 22-** LOCATION OF 2011 MEETING (LOWER MAINLAND)
Northern Rockies College
- 23-** ELECTION OF CHAIR FOR BCCAT BIO-ARTICULATION
Davic Blundon relected
- 24-** ADJOURNMENT: THANKS TO DAVE AND MARIE FOR ORGANIZING THE TRIP TO THE YUKON WILDLIFE PRESERVE AND THE MOOSE FOR DONATING THE HAMBURGERS