

MEMORANDUM

TO: Ms Karen Roche
Secretary of Senate

FROM: Dr. Rhonda Koster
Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee – Part II

DATE: 24 November 2009

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PART 11 – ARTICULATION AGREEMENT – ALGONQUIN COLLEGE BIOTECHNOLOGY TECHNOLOGIST DIPLOMA

The Senate Undergraduate Studies Committee met on November 13 to review a proposal for an articulation agreement regarding the Biotechnology Technologist Diploma from Algonquin College and the Honours Bachelor of Science (Applied Bio-Molecular Science Major) degree program from Lakehead University (attached, with supporting documents). The Committee recommends the agreement be approved.

RK/ma

Dr. Rhonda Koster, Chair

Prof. D. Martin
Chair
Faculty Council of
Science and Environmental Studies

COPY

November 2, 2009

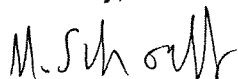
Re: Articulation Agreement with Algonquin College Biotechnology Technologist Diploma

Dear Prof. Martin:

Please find enclosed a proposal to establish an Articulation Agreement between the Algonquin College Biotechnology Technologist Advanced Diploma and Lakehead University's Applied Biomolecular Science Program.

This proposal has been evaluated by the members of the ABMS Program (interdisciplinary) and by the members of the Biology Department (home department of the Program). The proposal was approved by the Biology Department at its Departmental Meeting on October 31, 2009.

Sincerely,



Heidi Schraft
Associate Professor
Coordinator Applied Biomolecular Science

Articulation Agreement

between

Lakehead University Applied Bio-molecular Science Program and Algonquin College Biotechnology Technologist Advanced Diploma

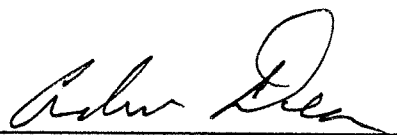
Objectives and Rationale

This articulation agreement will allow Algonquin College students who have completed their three year Advanced Diploma Program "Biotechnology Technologist" with an average of 70% or higher to receive credit toward the four year HBSc in Applied Bio-molecular Science (ABMS) at Lakehead University. Credit will be given as outlined below and the proposed course of study for these students will permit them to complete the HBSc ABMS within two years of full-time study.

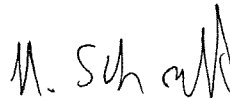
The primary objective of the proposed articulation agreement is to further augment enrollment in the HBSc Applied Bio-molecular Science, one of the largest undergraduate programs in the Faculty of Science and Environmental Studies. This is in accordance with a 2010-2013 strategic plan objective that also aims at increasing undergraduate enrollment at Lakehead University.

Applied Bio-molecular Science is closely related to Biotechnology, which has emerged as an important area of research at Lakehead University. A vibrant and successful undergraduate program in this area will significantly enhance the research-teaching link and also provide a solid basis for attracting highly qualified undergraduate students to research labs and ultimately to graduate school (various MSc and PhD programs in Biotechnology).

The Algonquin College Advanced Biotechnology Technologist Diploma students take a large number of courses in disciplines that are core to the ABMS Program, which includes Mathematics and Physics, Chemistry, Biochemistry, Biology, Microbiology, Genetics Bioinformatics, and Genomics. The degree includes theoretical courses and emphasis is also placed on hands-on laboratory skills. It is therefore justified to provide these students with advanced standing for entry into the HBSC Applied Bio-molecular Science. These students' background will not only fit very well into the ABMS curriculum, but their class contributions will also enrich the learning experience of ABMS majors who have entered directly from high school.



Dr. Andrew P. Dean
Dean, Faculty of Science and
Environmental Studies



Dr. Heidi Schraft
Applied Bio-molecular Science

Proposal for an Articulation Agreement with the Algonquin College Biotechnology Technologist Program

Two Years Credit for Three Year College Degree

College Transfer Students will be given credit for two years from Lakehead University (10 full course equivalents, FCE) of the Honours Bachelor of Science (Applied Bio-Molecular Science Major) degree. Such credit cannot be transferred to any other program at Lakehead University. Specifically, the students will receive credit as follows:

Course(s)	Weight (FCE)
ANTH 1032	0.5
BIOL 1110, 1130	1.0
CHEM 1110, 1130	1.0
PHYS 1113/1133	1.0
GSCI 1_10	0.5
BIOL 2171	0.5
BIOL 2711	0.5
BIOL 2910	0.5
ANTH 2_10	0.5
BIOL 2_10	0.5
CHEM 2_00	1.0
ARTS 1_10	0.5
ARTS 1_30	0.5
ARTS 2_10	0.5
GSCI 1_30	0.5
GSCI 2_10	0.5
TOTAL	10

- The 1.0 FCE unspecified Anthropology and Biology transfer credits count toward required courses from the List of Recommended Courses, which is part of the Program Requirements.
- The 1.0 FCE Chemistry transfer credit counts towards two of CHEM 2111, CHEM 2411 or CHEM 3131, which are required in 2nd year of the HBSc Applied Bio-Molecular Science
- The unspecified Arts and Science transfer credits count toward the open electives required in years one to four of the HBSc Applied Bio-Molecular Science.

To complete the four-year Honours BSc in Applied Bio-Molecular Science , College Transfer Students will take:

1st year at University

Fall	Winter
ANTH 2110	BIOL 2230
CHEM 2211	CHEM 2231
Math 1160 or MATH 1180 (full year course)	
1.0 FCE elective from the List of Recommended Courses	
1.0 FCE elective	

2nd year at University

Fall	Winter
ANTH 3138	CHEM 3271 / BIOL 3272
CHEM 3251 / BIOL 3252	
MATH 2321 (full year course) or KINE 3030 and 0.5 FCE elective	
2.5 FCE elective from the List of Recommended Courses	

Students who do not have the necessary average to enter into the fourth year of the Honours program will have the opportunity to receive a four-year BSc in Applied Bio-Molecular Science.

Entrance requirement 70% or 3.0 from college

This agreement is in effect from the date of signing and is place for five years. The agreement should be reviewed in its final year.

For the University

Date: _____

Dr. Frederick Gilbert, President and Vice-Chancellor

For the College

Date: _____

November 3, 2009

Lakehead University
955 Oliver Road
Thunder Bay, ON
P7B 5E1

Attention: Dr. Andrew P. Dean
Dean - Faculty of Science and Environmental Studies

Dear Dr. Dean,

Algonquin College is pleased to confirm our intent to enter into an agreement with Lakehead University to establish an articulation between our Biotechnology Technologist Advanced diploma program and your Honours Applied Biomolecular Science degree program.

The Faculty of Advanced Technology and Trades, within which the Biotechnology Technologist program resides, already has an established history of successfully establishing degree pathways with Lakehead University. We have existing articulations between, among other programs, our Electronics Engineering, Mechanical Engineering, and Civil Engineering Technology programs towards your Bachelor of Engineering degree program.

We look forward to an ongoing collaboration with your institution as we mutually strive to continue to forge pathways for degree attainment.

Yours truly,



Marguerite Donohue
Executive Dean, Academic Development

cc: V. Coligan

Phone (807) 343-8500
Fax (807) 766-7209
admissions@lakeheadu.ca

MEMORANDUM

TO: Dr. Andrew P. Dean, Dean, Science and Environmental Studies

FROM: Andrea Huillery, Acting Director, Office of Admissions & Recruitment

SUBJECT: **Support for the Lakehead-Algonquin Biotechnology Articulation**

DATE: October 27, 2009

The movement of students between post-secondary institutions is becoming increasingly common and has created a need for greater emphasis on post-secondary education pathways. The Council of Ontario Universities (COU) has referenced student mobility and transfer agreements with colleges as an important area of focus for post-secondary education institutions.

As competition continues to become fiercer each year for qualified undergraduate university applicants, this type of articulation agreement will generate another applicant pool to draw upon for the HBSc Applied Biomolecular Science program. Not only will this assist with enrolment within the undergraduate program but will generate additional graduates that could move on to studies at the graduate level. With the proposed seamless transition into Year 3 of the program, the agreement will be attractive to students in the Biotechnology program at Algonquin College as it will allow them to build on previous training and educational experiences.

The combination of the college level diploma and the university level degree is a recipe for success as proven by the formula of the Engineering transfer program. Students will be recognized not only for their academic knowledge within the field, but for their hands on technical abilities.

In turn, the Office of Admissions & Recruitment offers its full support to the creation of an articulation agreement between Lakehead University's Applied Biomolecular Science Program and Algonquin College's Biotechnology Technologist Advanced Diploma Program.