

MEMORANDUM

TO: Ms Karen Roche
University Secretary


FROM: Dr. Richard Maundrell
Acting Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee-Part 1

DATE: 3May 2013 (for May 14, 2013 Senate Meeting)

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The Senate Executive Committee approved the Media Studies Major on August 28, 2011. As a result of the recommendations from the Senate Budget Committee in its review prior to the final approval, the Department of Interdisciplinary Studies has made additional revisions to their original proposal. After considerable discussion and further revisions during many meetings, the Senate Undergraduate Studies Committee is recommending that Senate approve the program and course changes as described in the attachment to the Senate Budget Committee report.


Dr. Richard Maundrell, Acting Chair

RM/ma

MEMORANDUM

TO: Ms Karen Roche
University Secretary

FROM: Dr. Richard Maundrell
Acting Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee-Part 2

DATE: 3May 2013 (for May 14, 2013 Senate Meeting)

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A. CALENDAR CHANGES REFERRED FROM SENATE MEETING #2-2013 OF FEBRUARY 15, 2013, ITEM 4.2 (for 2014-2015)

The Senate Undergraduate Studies Committee met on April 11, 2013 to review items for the 2014-2015 academic year, and makes the following recommendations:

1. Faculty of Social Sciences and Humanities

(a) Prerequisites Sociology 4517 (2014-2015)

The Committee recommends that Senate approve the prerequisite change for Sociology 4517, but revised to read "Sociology 2111 and either Sociology 1100 or Environmental Studies 1120/Geography 1120, or permission of the instructor and Chair of the Department".

B. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #3-2013 OF MARCH 22, 2013, ITEM 4 (FOR 2014-2015)

.1 Faculty of Science and Environmental Studies

(a) New Course – Ceramics Analysis (2013-SCI-812)

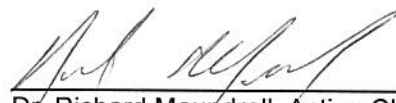
The Committee recommends that Senate approve the proposed new course, Anthropology 3235, included in the list of Science/Arts Credit courses, with minor revisions. The course is an elective (not required), the offering hours are "3-3; or 3-3", the start term is fall 2014, and a restrictive note should be added "Students who have previous credit in Anthropology 3815 or 3817 with topic title "Ceramics Analysis" may not take Anthropology 3235 for credit."

(b) Adding Detail to Biology Course Descriptions (2013-SCI-825)

The Committee recommends that Senate approve the revised Biology course descriptions, with revisions. The last sentence in BIOL 1110, 2030, 2070, 3151, 4751 and 4752, and the last three sentences in BIOL 3351 should be removed.

(c) BIOL 1110 New Description (2013-SCI-824)

The Committee recommends approval of the revised course description for Biology 1110, with the removal of the last sentence.



Dr. Richard Maundrell, Acting Chair

MEMORANDUM

TO: Ms Karen Roche
University Secretary

FROM: Dr. Richard Maundrell
Acting Chair, Senate Undergraduate Studies Committee

SUBJECT: Report of Senate Undergraduate Studies Committee-Part 3

DATE: 2May 2013 (for May 14, 2013 Senate Meeting)

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A. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #1-2013 OF JANUARY 18, 2013, ITEM 4

In addition to the recommendation in the SUSC report, Part 2, item A.2, to the April 19th Senate meeting, the Committee makes the following revisions to the **Women's Studies** proposals.

1. In the proposal, Women's Studies 3360 (2012-SOC-133), the cross-calendared course, Political Science 3360 should also be discontinued.
2. Because the changes to Second Year program requirements were intended to be effective for all Women's Studies programs, the changes should also be made to the Honours BA (Gerontology and Women's Studies Majors) program.

B. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #2-2013 OF FEBRUARY 15, 2013, ITEM 4.1 (FOR 2013-2014)

The Senate Undergraduate Studies Committee met on April 4, 11 and May 2, 2013 to review items for the 2013-2014 academic cycle, referred from the February 15, 2013 Senate meeting and makes the following recommendations:

1. Department of Interdisciplinary Studies (Orillia Campus)

(a) HBASc Criminology Major – housekeeping changes (2013-2014)

The Committee recommends Senate approve the proposed revisions to the Criminology programs, with minor editorial revisions.

(b) HBASc Environmental Sustainability – College Transfer Pathways (2013-2014)

It was pointed out that articulation agreement information is not currently calendared; therefore, the Committee does not recommend approval of the proposed calendar entry.

In its place, the Committee recommends that Senate approve the articulation agreement, Parts 1 and 2 (Attachment #1), as stipulated by the University's Academic Policy regarding Articulation Policy and Procedures (<https://www.lakeheadu.ca/faculty-and-staff/policies>).

(c) GAAS College Transfer (2013-2014)

As above, the Committee does not recommend approval of the proposed calendar entry.

In its place, the Committee recommends that Senate approve the articulation agreement, Parts 1 and 2 (Attachment 2), as stipulated above.

C. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #2-2013 OF FEBRUARY 15, 2013, ITEM 4.2 (FOR 2014-2015)

The Senate Undergraduate Studies Committee met on April 11, 2013 to review items that were designated for the 2014-2015 academic cycle, but recommends that, **if approved, they become effective for 2013-2014 instead**, and makes the following additional recommendations:

1. Faculty of Engineering

(a) Civil 2139 (2013-ENG-814)

The Committee recommends approval of the proposed change in offering hours of instruction for ENGI 2139, with associated program change. The lecture/lab hours should also be adjusted in the BEng (Civil Engineering) program description, Second Year Fall Term.

(b) Change Surveying School to a one-week period (2014-2015)

The Committee recommends that Senate approve the course description change for Engineering 1235, with clarification that it is only offered for the Civil Engineering program.

D. CURRICULUM/CALENDAR CHANGES REFERRED FROM SENATE MEETING #3-2013 OF MARCH 22, 2013, ITEM 4

The Senate Undergraduate Studies Committee met on April 4, 11, and 18, 2013 to review items that were referred from the March 22, 2013 Senate meeting, and makes the following recommendations:

.1 Faculty of Education

(a) Create new course – EDUC 4827 Intermediate Curriculum and Instruction (Additional Basic Qualification – Intermediate Division) – Family Studies (2013-EDU-819)

In addition to its recommendation, item C.1.(a), of the SUSC report, Part 2, to the April 19th the Committee recommends that the prerequisite be revised to read:

“Prerequisite: A recognized university degree (allowing for teachers trained outside of Ontario). Students must have two full course equivalents in Family Studies or related subjects, such as Psychology, Sociology, Interdisciplinary Studies, Women’s Studies.”

.2 Faculty of Engineering

(a) Civil 3452 (2013-ENG-815)

The Committee recommends that Senate approve the proposed change in offering hours of instruction for ENGI 3452, with associated program change. The lecture/lab hours should also be adjusted in the BEng (Civil Engineering) program description, Third Year Winter Term. The Committee further recommends that, if approved, the changes should become effective for 2013-2014.

.3 Faculty of Law

(a) Required Courses for First Year Law (2012-2013) (2013-2014)

The Committee recommends that Senate approve the proposed new course, Law 1535, with revisions. The second sentence of the description will be deleted and the course will be a zero credit-weight, pass/fail, required course in the program.

E. CURRICULUM CHANGES REFERRED FROM SENATE MEETING #2-2012 OF FEBRUARY 17, 2012, ITEM 4 – FACULTY OF BUSINESS

ADMINISTRATION - HONOURS BACHELOR OF COMMERCE PRE-LAW/GENERAL MANAGEMENT/LEGAL STUDIES MAJOR (2013-2014)

This proposal was redirected for review from the Senate Undergraduate Studies Committee to the Senate Academic Committee – Quality Assurance committee who are still awaiting a revised document. Therefore, SUSC has removed this item from our agenda and we anticipate it will be submitted at a future date as a new referral.

F. CORRECTIONS TO PREVIOUS REPORTS (2013-2014)

(a) In the SUSC report to the February 15th Senate meeting, Section C, 1. Faculty of Science and Environmental Studies, item (f), the request number 2012-SCI-166 should be 2012-SCI-167.

(b) In the SUSC report to the March 22nd Senate meeting, Section B, 4. Faculty of Social Sciences and Humanities, item (a), the second restrictive note should be for students who have previously taken Visual Arts 1020, not 1120.

(c) In the SUSC report, Part 1, to the April 25th Senate meeting, Section A:
- in (w), the recommendation should be for approval of proposed revisions in an existing course
- in (y), the recommendation should be for approval of the addition of a prerequisite and revision to the title and description, with the addition of offering hours, in an existing course.

G. OUTSTANDING ITEMS

The Committee has no other outstanding calendar/curriculum change items.

Dr. Richard Maundrell, Acting Chair

RM/ma

Part 1: Brief Introduction to the Proposed Articulation

Title of the programs: The Department of Interdisciplinary Studies at Lakehead-Orillia is proposing an articulation agreement between Georgian College's Environmental Technology (Co-Op) 3 year diploma program and Lakehead University's HBASc Environmental Sustainability Major.

Objective: The goal of this proposal is to create pathways for top graduates of the Georgian College Environmental Technology (Co-Op) 3 year diploma program (grade average of 70% or higher) to transfer into the third year of the HBASc program with an additional 1FCE spring/summer courses at Lakehead. In other words, strong college graduates would only require 11 FCEs to complete an HBASc degree making university education quite appealing to individuals who otherwise might not consider continuing post-secondary education beyond college. Our proposal offers the mechanism for a smooth transition for Georgian College graduates to a relevant university program.

Rationale: The rationale for the articulation is three-fold. First, at an institutional level, Lakehead University signed a Memorandum of Understanding (MOU) with Georgian College in June 2012, indicating that a variety of pathways would be developed to assist student transfers from one institution to the other. One of the primary initiatives in the MOU is the development of block transfers based on learning outcomes. Learning outcomes for the two programs are very similar. The well-rounded approach to environmental sustainability and the Arts and Science combination of Lakehead's HBASc Environmental sustainability major, is an attractive option to Georgian's graduates as their college program also foster those concepts. The Environmental Technology (Co-Op) program has articulation agreements with several other university programs across Canada. Currently, the majority of graduates interested in higher studies are pursuing their degrees at Royal Roads University, Victoria, BC. In addition to Georgian's awareness and appreciation of Lakehead's environmental programs, Lakehead- Orillia's close proximity to Georgian would be an added attraction to these graduates.

Second, at a specific programming level, there are sufficient similarities between Georgian's Environmental Technology three year diploma program and the first two years of Lakehead-Orillia's HBASc Environmental Sustainability program to allow Georgian graduates to acquire sufficient and relevant academic background necessary for LU's upper year level courses. Georgian's Environmental Technology program requires 30 mandatory courses. The array of mandatory courses indicates that the college program is sufficiently focused and wide-ranging to form the basis for the HBASc Environmental Sustainability program. The curriculum covers a wide area of environmental studies such as biology, chemistry, physics, mathematics, statistics, geography, geology, hydrology, wastewater treatment, environmental sustainability, geospatial technology and, environmental management including environmental law and policies.

Courses: BIOL 1008: biological systems, CHEM1003: Intro to Appl. Chem., CHEM2002: Appl. Org. Chem., CHEM3001: Appl. Env'tl. Chem., MATH1018: Intro to Technical Mathematics, MENG3013: Fluid in the Environment, PHYS1004: Physical Systems in the Environment, STAT2006: Appl. Statistics for Env'tl. Applications, SURV2001: Geomatics and Env'tl. CADD, ENVR1000: Env'tl. Science and Sustainability, ENVR1003: Env'tl. Health and Safety, ENVR1004: Geospatial Technology, ENVR2004: Waste Mngt. Strategies, ENVR2005: Env'tl. Assessment, ENVR2011: Contaminants in the Env't., ENVR2012: Ecosystems and Env'tl. Sampling, ENVR2013: Limnology and Watershed Mngt., ENVR2014: Env'tl. Mngt. Systems and Audits, ENVR2015: Soils and Env'tl. Geology, ENVR3000: Applied Hydrology and Hydrogeology, ENVR3001: Water Supply and Wastewater Treatment, ENVR3002: Toxicology in Contaminants and Organisms, ENVR3006: Sustainable Technologies 1, ENVR3007: Sustainable Technologies 2, ENVR3008: Risk Assessment and Peer Review, ENVR3009: Spill Response and Emergency Preparedness, ENVR3010: Advanced Env'tl. Sampling, ENVR3011: Ecosystem Based Management, LAWS2010: Env'tl. Law and Policy.

Beyond those courses, students are required to take 2 communications Courses, 5 General Education Courses and 3 Co-op Work Terms. Indeed, several of these courses already receive transfer credit at Lakehead on a course-by-course basis.

Third, at a recruitment level, Lakehead could significantly increase enrolment in upper level courses by admitting competent graduates from Georgian's Environmental Technology (Co-Op) 3 year diploma program. The college program requires a 60% average for their graduates. Students with averages over 70%, which is the proposed average for transfer, have already proven their capacity to master post-secondary studies. Since these students have already paid for two years of tuition, they would not normally consider attending university for another four years, since they have already learned a substantial amount of material covered in first and second year university courses and would be paying for duplication. A college-university pathway program, however, would enable these students to complete the university degree with only two more years of tuition, making this option quite attractive.

Student demand: Many high school graduates who are first-generation post-secondary students choose to attend college rather than university because they are uncertain about their academic abilities or job prospects. Some of these students discover during their college programs that they have the potential to perform well once they find their motivation and reach maturity. Discussion with Georgian's counterparts regarding this articulation initiative revealed that minimum 5-10 students per year would be interested in continuing their studies at Lakehead. In addition to Georgian's awareness and appreciation of Lakehead's environmental programs, Lakehead- Orillia's close proximity to Georgian would be an added attraction to these graduates. The attached examples of student enquiries, with a view to entering the program in September 2013, received by the program contact (Appendix 1) are among the many that have crossed the desk of academic/admissions & recruitment offices. After the pathways is fully established and marketed, we estimate 10-15 college transfer students each year.

Benefits to Lakehead: The benefits of this articulation agreement to Lakehead University are three fold. First, LU enrolment would increase. Since college transfer

students are not likely to consider starting a University degree from the beginning they will be an addition to the potential applicant pool. Second, LU would be tapping into Georgian College's excellent marketing tools, which would promote the college transfer option to Lakehead as part of their recruitment packages. Students who are more comfortable attending college rather than university after high school would be made aware of Lakehead's college transfer program and may consider pursuing a university degree once they become familiar and gain confidence in their ability to pursue a full-fledged post-secondary program. A third benefit, albeit indirect, is the establishment of close ties between the two major post-secondary institutions in the Simcoe County region and the resulting enhancement of relations between these institutions and their respective communities.

We herewith seek approval to proceed with the development of this proposal.

Signed,

Appendix 1

I am currently in my third and final year in the Environmental Technology program at Georgian College. I am interested in continuing my education with the Environmental Sustainability Degree you offer at Lakehead University- Orillia Campus. I did notice there has yet to be an articulation made between the Georgian College Environmental Technology and Lakehead Environmental Sustainability Program. I was wondering after I graduate from Georgian, if I would be exempt from any credits in the Environmental Sustainability Program (ex. 1 or 2 years)? I do realize it we be pending on my averages and acceptance, I'm just kind looking for the best case scenario. If you have any information on the program itself including courses and tuition fees it would be greatly appreciated.

Thanks in advance.

That's great! I've already got one student interested to start Sept 2013.

My name is and i'm currently completing my last year at Georgian College in the three year Environmental Technology Co-operative Program. I will finish this coming August 2012.

I was wondering if you would be able to provide me with some information on the Environmental Sustainability Program at the Orillia Campus. I am interested in doing a transfer and earning my Bachelor of Science and I am curious about what your requirements are as far as what I can bring with me from Georgian.

Thank you for your time,

Hello there, I'm currently studying environmental technology at Georgian College in Barrie, Ontario. I was wondering if after I finish either the two or three year diploma program if I would be able to start ahead in the Environmental Sustainability program?
Thanks in advance,

Part 2: Terms of Agreement

Programs: Environmental Technology (Co-Op) 3-year diploma program, Georgian College and Honours Bachelor of Arts and Science in Environmental Sustainability program, Lakehead University

1. This program will cover the period 2013 to 2018 (maximum allowable time).
2. a. The Georgian College diploma is composed of three academic years (6 semesters and 2 work terms).
 - b. The minimum admission criterion for Environmental Technology college diploma graduates is 70% overall average.
 - c. Specific transfer evaluation information of college course(s)/credits is as follows:

Block Transfer: Graduates of a 3-year diploma program in Environmental Technology at Georgian College with a minimum average of 70% are eligible for this block transfer.

Environmental Technology 3-year diploma graduates will have taken the following mandatory courses:

Georgian Environmental Technology 3-year Diploma program (course/work term) details

Graduation Requirements:

30 Mandatory Courses, 2 Communications Courses, 5 General Education Courses, and 3 Co-op Work Terms

Mandatory Courses

BIOL1008 Biological Systems
CHEM1003 Introduction to Applied Chemistry
CHEM2002 Applied Organic Chemistry

CHEM3001 Applied Environmental Chemistry
 COMP1059 Computer Technology for Environmental Applications
 ENVR1000 Environmental Science and Sustainability
 ENVR1003 Environmental Health and Safety
 ENVR1004 Geospatial Technology
 ENVR2004 Waste Management Strategies
 ENVR2005 Environmental Assessment
 ENVR2011 Contaminants in the Environment
 ENVR2012 Ecosystems and Environmental Sampling
 ENVR2013 Limnology and Watershed Management
 ENVR2014 Environmental Management Systems and Audits
 ENVR2015 Soils and Environmental Geology
 ENVR3000 Applied Hydrology and Hydrogeology
 ENVR3001 Water Supply and Wastewater Treatment
 ENVR3002 Toxicology in Contaminants and Organisms
 ENVR3006 Sustainable Technologies 1
 ENVR3007 Sustainable Technologies 2
 ENVR3008 Risk Assessment and Peer Review
 ENVR3009 Spill Response and Emergency Preparedness
 ENVR3010 Advanced Environmental Sampling
 ENVR3011 Ecosystem-Based Management
 LAWS2010 Environmental Law and Policy
 MATH1018 Introduction to Technical Mathematics
 MENG3013 Fluid in the Environment
 PHYS1004 Physical Systems in the Environment
 STAT2006 Applied Statistics for Environmental Applications
 SURV2001 Geomatics and Environmental

- CADD Communications Courses to be selected at time of registration from the College list, as determined by testing.
- General Education Courses to be selected from College list
- Co-op Work Terms: COOP1023 Environmental Work Term 1 COOP2018 Environmental Work Term 2 COOP3010 Environmental Work Term 3

- d. Maximum number of course credits to be received by the student as part of the transfer if all terms of the agreement are fulfilled.

Graduates of a 3-year diploma program in Environmental Technology from Georgian College, with a minimum overall average of 70%, may be eligible for up to 9 full credits in transfer credit to be used towards the Honours Bachelor of Arts & Science Environmental Sustainability major. Once admitted, students must work with a university advisor to select appropriate courses for the remaining 11 FCEs of the major. As with all transfer programs, meeting the minimum requirement does not guarantee admission to either the University or a specific program.

Spring/Summer

- (a) One FCE electives in Area I

First Year:

- (a) Interdisciplinary Studies 1010
- (b) Biology 1130, 2711
- (b) Geography 1120
- (c) Philosophy 2013
- (d) Economics 2212
- (e) Environmental Sustainability 3053, 3073
- (f) One half elective at 2nd year or higher

Second Year:

- (a) Natural Resources Management 2054
- (b) Geography 2331
- (c) Environmental Sustainability 3033, 4013, 4110
- (d) Interdisciplinary Studies 4010, 4033
- (e) Biology 4711
- (f) One FCE electives

3. The terms shall also specify:

- Specific conditions related to the college transfer credits: NIL
- Effective date of agreement: June 2013.

Signatures:

Director of Admissions &
Recruitment _____,

College
Representative _____,

Acting Dean, Orillia Campus
_____,

Dean, Science and Environmental Studies
_____,

Dean, Natural Resources Management

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Part I: ARTICULATION AGREEMENT PROPOSAL (GAAS into HBASc)

The Department of Interdisciplinary Studies at Lakehead-Orillia is proposing an articulation agreement between Georgian College's General Arts and Science (GAAS) 2 year diploma program and Lakehead University's Honours Bachelor of Arts and Science (HBASc) and Bachelor of Arts and Science (BASc) programs.

The objective is to create pathways for graduates of the Georgian College GAAS college program with a 70% average or higher to transfer into the third year of either the HBASc program or the BASc program after successful completion of two full course equivalents. In other words, strong GAAS graduates would only require 12 FCEs to complete the HBASc degree or 7 FCEs to complete the BASc degree, making a university education appear quite appealing to individuals who otherwise might not consider continuing with post-secondary education. Our objective would be to make transfers from one institution to the other to be as seamless for college graduates as possible.

The rationale for the articulation is three-fold. First, on an institutional level, Lakehead University signed a Memorandum of Understanding (MOU) with Georgian College in June 2012, indicating that a variety of pathways would be developed to assist student transfers from one institution to the other. One of the three primary initiatives in the MOU is the development of block transfers based on learning outcomes. Learning outcomes for Arts and Science programs at both Georgian and Lakehead-Orillia are similar in so far as they all emphasize thinking and communication skills, flexibility in approaching knowledge from multiple perspectives, and responsibility in decision making and community relations.

Second, on a more specific programming level, enough similarities exist between Georgian's General Arts and Science two year diploma program and the first two years of Lakehead-Orillia's HBAs/BASc programs to consider graduates from the college program as having mastered sufficient background to take second or third year courses in relevant areas. Of the 24 courses (.5 FCE each) required for Georgian's GAAS program, 15 are specifically mandated, ensuring that each graduate has completed the following courses: GNED1001 Contemporary Canada GNED2032 Human Rights HUMN1000 Critical Thinking HUMN1006 Short Writings and Genres HUMN2000 Canadian Literature and Criticism HUMN2001 Cross-Cultural Communications HUMN2005 Western Philosophy PSYL1001 Introduction To Psychology PSYL1002 Introduction to Psychology 2 PSYL2000 Industrial Psychology PSYL2001 Industrial and Consumer Psychology REAS2000 Senior Research Seminar SCIE2000 Science Concepts SOCL1000 Introduction to Sociology SOCL1001 Introduction to Sociology 2. Beyond those courses, students are required to select either HUMN1001 Critical Thinking in Practice or MATH1005 Math for Life

Sciences, take 2 Communications courses, 4 General Education courses, and 2 optional courses. The array of mandatory courses is sufficiently focused and wide-ranging to form the basis for specializations in Political Science, Psychology, or Sociology as well as complete a variety of electives within the HBASc (requiring two specializations) or BASc (requiring one specialization) at Lakehead. Comparison between courses outlines for Georgian first year courses and similar courses at Lakehead reveals that they align closely in terms of academic content. Indeed, several of these courses already receive transfer credit at Lakehead on a course-by-course basis.

Third, on a recruitment level, Lakehead could increase enrolment in upper level courses by admitting competent graduates from Georgian's General Arts and Science two year diploma program. Students with averages over 70% have already proven their capacity to master post-secondary studies. Since these students have already paid for two years of tuition, they normally would not consider attending university for another four years, especially since they have already learned a substantial amount of material covered in first and second year university courses and would be paying for duplication. A college-university pathway program, however, would enable these students to complete the university degree with only two and a half more years of tuition, making this option quite attractive.

Many high school graduates who are first-generation post-secondary students choose to attend college rather than university because they are uncertain about their academic abilities. Some of these students discover during their college programs that they have the potential to do quite well once they find their motivation and reach maturity. According to various instructors and Deans at Georgian College, approximately 20-30 of their graduates from General Arts and Science 2-year diploma program each year are interested in continuing their post-secondary education and receiving a university degree. Most of these students would prefer to do so as close to Barrie as possible, preferably at a small campus. Several of these students have already contacted the recruiting office at Lakehead-Orillia with a view to entering the program in September 2013. Since the program has not yet been approved or advertised, Lakehead could expect 6-10 college transfer students by September 2013. After it is fully established and marketed, we estimate 20-30 college transfer students each year.

The benefits of this articulation agreement to Lakehead University are two-fold. First, we would be increasing enrolment. Even though college transfer students will only be at Lakehead for two and a half rather than four years, these are students who otherwise would not consider attending university at all. Second, we would be gaining from Georgian College's excellent marketing materials, which would include the college transfer option to Lakehead as part of their own recruitment packages, reaching people who might otherwise be predisposed to college training options only. Students who are more comfortable attending college rather than university after high school would be made aware of Lakehead's college transfer program and consider attending once they have graduated, when they have gained confidence and are prepared to do well in a post-secondary setting.

We herewith seek approval to proceed with the development of this proposal.

Signed,

Part 2a. (GAAS to HONOURS BASc): Terms of Agreement

between Georgian College General Arts and Science 2 year diploma program and Lakehead University Honour Bachelor of Arts and Science (Interdisciplinary Studies) program

1. This program will cover the period 2013 to 2018 (maximum allowable time).
2. a. The Georgian College diploma is composed of two academic years (4 terms).
 - b. The minimum admission criteria for GAAS college diploma graduates is 70% overall average.
 - c. Specific transfer evaluation information of college course(s)/credits is as follows:

Block Transfer: Graduates of a 2-year diploma program in General Arts & Science from Georgian College, with a minimum overall average of 70% are eligible for this block transfer.

Note that Georgian's General Arts and Science graduates will have taken the following mandatory courses:

GNED1001 Contemporary Canada
GNED2032 Human Rights
HUMN1000 Critical Thinking
HUMN1006 Short Writings and Genres
HUMN2000 Canadian Literature and Criticism
HUMN2001 Cross-Cultural Communications
HUMN2005 Western Philosophy
PSYL1001 Introduction to Psychology
PSYL1002 Introduction to Psychology 2
PSYL2000 Industrial Psychology
PSYL2001 Industrial and Consumer Psychology
REAS2000 Senior Research Seminar
SCIE2000 Science Concepts
SOCL1000 Introduction to Sociology
SOCL1001 Introduction to Sociology 2

These students have also taken either HUMN1001 Critical Thinking in Practice OR MATH1005 Math for Life Sciences, plus 2 Communications Courses, 4 General Education courses, and 2 optional courses.

- d. Maximum number of course credits to be received by the student as part of the transfer if all terms of the agreement are fulfilled.

The maximum number of course transfer credits to be received is up to 8 full credits to be used towards the Honours Bachelor of Arts & Science (Interdisciplinary Studies major). Once admitted, students must work with a university advisor to select appropriate courses for the remaining 12 FCEs of the major. (Note that these students will be advised to complete specializations in Political Science, Psychology, or Sociology since those disciplines recognize first year college courses as equivalent to Lakehead's first year courses.) As with all transfer programs, meeting the minimum requirement does not guarantee admission to either the University or a specific program.

Spring/Summer

- (a) One FCE in first area of specialization at second year level
- (b) One FCE in second area of specialization at second year level

NOTE: All HBASc students must complete one of the following methodological courses: ANTH 2517, BIOL 2910, ENGL 2903, ENSU 2033, GEOG 2251, GEOG 2271, MATH 2310, MDST 2230, PHIL 2413, POLI 2555, PSYC 2101, SOCI 2911.

First Year:

- (a) One FCE in first area of specialization at second year level
- (b) One FCE in second area of specialization at second year level
- (c) One FCE in first area of specialization at third or fourth year level
- (d) One FCE in second area of specialization at third or fourth year level
- (e) One half FCE elective in Area II at second year level or higher
- (f) Interdisciplinary Studies 3010

Second Year:

- (a) One FCE of Interdisciplinary Studies 4010 and 4030 or 4901.
<http://mycoursecalendar.lakeheadu.ca/pg161.html> - 24595
- (b) One FCE in first area of specialization at third or fourth year level
- (c) One FCE in second area of specialization at third or fourth year level
- (d) One and a half FCE electives in Area II at second year level or higher
- (e) One half FCE elective at second, third, or fourth year level

3. The terms shall also specify:

- No specific conditions related to the college transfer credits;
- Effective date of agreement: June 2013.

Part 2b. (GAAS to BASc): Terms of Agreement

between Georgian College General Arts and Science 2 year diploma program and Lakehead University non-honours Bachelor of Arts and Science (Interdisciplinary Studies) program

1. This program will cover the period 2013 to 2018 (maximum allowable time).
2. a. The Georgian College diploma is composed of two academic years (4 terms).

b. The minimum admission criteria for GAAS college diploma graduates is 70% overall average.

c. Specific transfer evaluation information of college course(s)/credits is as follows:

Block Transfer: Graduates of a 2-year diploma program in General Arts & Science from Georgian College, with a minimum overall average of 70% are eligible for this block transfer.

Note that Georgian's General Arts and Science graduates will have taken the following mandatory 40-hour courses:

GNED1001 Contemporary Canada
GNED2032 Human Rights
HUMN1000 Critical Thinking
HUMN1006 Short Writings and Genres
HUMN2000 Canadian Literature and Criticism
HUMN2001 Cross-Cultural Communications
HUMN2005 Western Philosophy
PSYL1001 Introduction to Psychology
PSYL1002 Introduction to Psychology 2
PSYL2000 Industrial Psychology
PSYL2001 Industrial and Consumer Psychology
REAS2000 Senior Research Seminar
SCIE2000 Science Concepts
SOCL1000 Introduction to Sociology

SOCL1001 Introduction to Sociology 2

These students have also taken either HUMN1001 Critical Thinking in Practice OR MATH1005 Math for Life Sciences, plus 2 Communications Courses, 4 General Education courses, and 2 optional courses.

d. Maximum number of course credits to be received by the student as part of the transfer if all terms of the agreement are fulfilled.

The maximum number of course transfer credits to be received is up to 8 full course equivalents to be used towards the Bachelor of Arts & Science (Interdisciplinary Studies). Once admitted, students must work with a university advisor to select appropriate courses for the remaining 7 FCEs of the BASc, as outlined below. (Note that these students will be advised to complete specializations in Political Science, Psychology, or Sociology since those disciplines recognize first year college courses as equivalent to Lakehead's first year courses.) As with all transfer programs, meeting the minimum requirement does not guarantee admission to either the University or a specific program.

Spring/Summer

- (a) One FCE area of specialization at second year level
- (b) One FCE elective at second year level or higher

NOTE: All BASc students must complete one of the following methodological courses: ANTH 2517, BIOL 2910, ENGL 2903, ENSU 2033, GEOG 2251, GEOG 2271, MATH 2310, MDST 2230, PHIL 2413, POLI 2555, PSYC 2101, SOCI 2911.

One Year:

- (a) One FCE in area of specialization at second year level
- (b) Two FCEs in area of specialization at third or fourth year level
- (c) One and a half FCE electives in Area II at second year level or higher
- (d) Interdisciplinary Studies 3010

3. The terms shall also specify:

- No specific conditions related to the college transfer credits;
- Effective date of agreement: June 2013.

Signatures:

Director of Admissions &
Recruitment _____,

College
Representative _____,

Heads of all University Academic Units with courses involved in the articulation:

Political Science
_____,

Psychology
_____,

Sociology
_____,

Acting Dean, Orillia Campus
_____,

Dean, Social Sciences and Humanities
_____,

Dean, Health and Behavioral Sciences

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Part 2: Terms of Agreement

Programs: Environmental Technology (Co-Op) 3-year diploma program, Georgian College and Honours Bachelor of Arts and Science in Environmental Sustainability program, Lakehead University

1. This agreement will cover the period 2013 to 2016, with the potential to renew the agreement and make any necessary changes due to potential revisions in either Georgian College or Lakehead University Environmental Sustainability program.

2. a. The Georgian College diploma is composed of three academic years (6 semesters and 2 work terms).

b. The minimum admission criteria for the Environmental Technology diploma is 70% over all averages.

c. Specific transfer evaluation information is available on the college website as follows:

Block Transfer: Graduates of the Environmental Technology program at Georgian College may be admitted to the Honours Bachelor of Arts and Science program at Lakehead University Major College through the articulation program if they have a minimum average of 70% in the program.

Environmental Technology 3-year diploma program includes the following mandatory courses:

Georgian Environmental Technology (Co-Op) 3-year diploma program (term) details

Graduation Requirements:

30 Mandatory Courses, 2 Communications Courses, 5 General Education Courses, and 3 Co-op Work Terms

Mandatory Courses

- BIOL1008 Biological Systems
- CHEM1003 Introduction to Applied Chemistry
- CHEM2002 Applied Organic Chemistry
- CHEM3001 Applied Environmental Chemistry
- COMP1059 Computer Technology for Environmental Applications
- ENVR1000 Environmental Science and Sustainability
- ENVR1003 Environmental Health and Safety
- ENVR1004 Geospatial Technology
- ENVR2004 Waste Management Strategies
- ENVR2005 Environmental Assessment
- ENVR2011 Contaminants in the Environment
- ENVR2012 Ecosystems and Environmental Sampling
- ENVR2013 Limnology and Watershed Management

Signature
sheets
for Attachment
#1

ENVR2014 Environmental Management Systems and Audits
ENVR2015 Soils and Environmental Geology
ENVR3000 Applied Hydrology and Hydrogeology
ENVR3001 Water Supply and Wastewater Treatment
ENVR3002 Toxicology in Contaminants and Organisms
ENVR3006 Sustainable Technologies 1
ENVR3007 Sustainable Technologies 2
ENVR3008 Risk Assessment and Peer Review
ENVR3009 Spill Response and Emergency Preparedness
ENVR3010 Advanced Environmental Sampling
ENVR3011 Ecosystem-Based Management
LAWS2010 Environmental Law and Policy
MATH1018 Introduction to Technical Mathematics
MENG3013 Fluid in the Environment
PHYS1004 Physical Systems in the Environment
STAT2006 Applied Statistics for Environmental Applications
SURV2001 Geomatics and Environmental

- CADD Communications Courses to be selected at time of registration from the College list, as determined by testing.
- General Education Courses to be selected from College list
- Co-op Work Terms: COOP1023 Environmental Work Term 1 COOP2018 Environmental Work Term 2 COOP3010 Environmental Work Term 3

We would consider: ENVR 2004, ENVR 3001 and LAW 2010 combined to be equivalent to INQU 1033; BIOL 1008 and ENVR1000 combined to be equivalent to BIOL 1110; ENVR 1003, ENVR2011, ENVR 2012 and ENVR 2013, combined to be equivalent to NRMT 1010 and BIOL 2210; ENVR2015, ENVR3000, and ENVR 3010 combined to be equivalent to GEOL1130 and GEOG 3313; MATH1018 and STAT2006 combined to be equivalent to MATH0210; any two GNED courses combined to be equivalent to One half course equivalent elective in Area I; ENVR3008, ENVR1003 and COOP1023 combined to be equivalent to ENSU 2033; CHEM1003, CHEM2002 and CHEM3001 combined to be equivalent to CHEM2610; ENVR1004, SURV2001, ENVR 3010 and COOP2018 combined to be equivalent to NRMT 2270 and ENSU3013; ENVR3002, 3006 and 3007 combined to be equivalent to BIOL3610 and ENVR2014 and ENVR2005 combined to be equivalent to GEOG3471. The rest of the Georgian courses combined will satisfy 1.5 electives.

- d. Maximum number of course credits to be received by the student as part of the transfer if all terms of the agreement are fulfilled.

Transfer students are eligible to be credited with 9 FCEs towards the HBASc Environmental Sustainability major, reducing the remaining requirements to 11 FCEs (with an overall average of 70%) as outlined below. Meeting the minimum requirement does not guarantee admission to either the University or ENSU program.

Second Year:

- (a) Natural Resource management 2054
- (b) Geography 2331
- (c) ENSU 3033, 4013
- (d) Inquiry 4010, 4033
- (e) Biology 4710, 4711
- (f) One FCE electives (2nd year or higher)

3. The terms shall also specify:

- Specific conditions related to the college transfer credits: NIL
- Effective date of agreement: June 2013.

Signatures:

Director of Admissions & Recruitment 

College Representative _____

Acting Dean, Orillia Campus _____

Dean, Science and Environmental Studies _____

Dean, Natural Resources Management _____

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Spring/Summer

- (a) One FCE electives in Area I

First Year:

- (a) Inquiry 1010
- (b) Biology 1130, 2711
- (b) Geography 1120
- (c) Philosophy 2013
- (d) Economics 2212
- (e) ENSU 3053, 3073
- (f) One half elective at 2nd year or higher

Second Year:

- (a) Natural Resource management 2054
- (b) Geography 2331
- (c) ENSU 3033, 4013
- (d) Inquiry 4010, 4033
- (e) Biology 4710, 4711
- (f) One FCE electives

3. The terms shall also specify:

- Specific conditions related to the college transfer credits: NIL
- Effective date of agreement: June 2013.


Signatures:

Director of Admissions& Recruitment _____,

College Representative _____,

Heads of all University Academic Units with courses involved in the articulation:

Biology _____,

Geology  _____,

Geography _____,

Natural Resources Management _____

Chemistry _____

Mathematics _____

Spring/Summer

- (a) One FCE electives in Area I

First Year:

- (a) Inquiry 1010
- (b) Biology 1130, 2711
- (b) Geography 1120
- (c) Philosophy 2013
- (d) Economics 2212
- (e) ENSU 3053, 3073
- (f) One half elective at 2nd year or higher

Second Year:

- (a) Natural Resource management 2054
- (b) Geography 2331
- (c) ENSU 3033, 4013
- (d) Inquiry 4010, 4033
- (e) Biology 4710, 4711
- (f) One FCE electives

3. The terms shall also specify:

- Specific conditions related to the college transfer credits: NIL
- Effective date of agreement: June 2013.

Signatures:

Director of Admissions& Recruitment _____,

College Representative _____,

Heads of all University Academic Units with courses involved in the articulation:

Biology D. Law [Signature] 2013-04-11,

Geology _____,

Geography _____,

Natural Resources Management _____,

Chemistry _____,

Mathematics _____

Chris Gifford

Chemistry _____

Mathematics Ad e Gifford (April 23, 2013) (Assuming no math credit is given)

Acting Dean, Orillia Campus _____,

Dean, Science and Environmental Studies _____,

Dean, Natural Resources Management _____

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Geography

Todd Randall, Chair Department of Geography April 10, 2013



Natural Resources Management _____

Chemistry _____

Mathematics _____

Acting Dean, Orillia Campus _____

Dean, Science and Environmental Studies _____

Dean, Natural Resources Management _____

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Acting Dean, Orillia Campus _____,

Dean, Science and Environmental Studies _____,

Dean, Natural Resources Management _____

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Psychology _____.

Sociology *Karen Wychyska for Dr. Sharon-Dale Stone* _____.

Acting Dean, Orillia Campus _____.

Dean, Social Sciences and Humanities _____.

Dean, Health and Behavioral Sciences _____.

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Psychology _____,

Sociology _____,

Acting Dean, Orillia Campus _____,

Dean, Social Sciences and Humanities  R. Koster Acting Dean _____,

Dean, Health and Behavioral Sciences _____

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)

Psychology ^{PSY 1001} PSY 1002 or in PSYC 1100 standing M. H. [Signature]

Sociology _____

Acting Dean, Orillia Campus [Signature]

Dean, Social Sciences and Humanities _____

Dean, Health and Behavioral Sciences [Signature]

(Submit to Chair of Senate Undergraduate Studies Committee, Chair of Senate Budget Committee for approvals, and then forwarded to Senate for approval.)