

University of Toronto at Scarborough

Vice-Principal (Academic) and Dean

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VICE-PROVOST, ACADEMIC

December 7, 2004

Professor Edith Hillan, Vice-Provost, Academic, University of Toronto, Simcoe Hall, 27 King's College Circle, Room 225

Dear Professor Hillan,

Enclosed are proposals from the University of Toronto at Scarborough for new programs and program changes. These proposals were approved by the UTSC Academic Committee at its meeting on December 7, 2004 and, if approved, will come into effect next May with the 2005 Summer Session.

The proposals include the following new programs:

Specialist Program in Conservation Biology

Specialist Program in Economics for Management Studies

Specialist Program in Environmental Physics

Specialist Program in Management and Humanities

Specialist Program in Management and Information Technology

Specialist Program in Management and Life Sciences

Specialist Program in Management and Sciences

Specialist Program in Management and Social sciences

Major Program in Diaspora and Transnational Studies

Minor Program in Diaspora and Transnational Studies

I am writing to confirm that the proposed new UTSC programs and the various program changes can be supported within UTSC's current resources, that they are consistent with UTSC's strategy for achieving enrolment growth and that they have my full support. (Cognate departments elsewhere in the University have been consulted and the proposals have been reviewed by the tri-campus decanal committee.)

Yours sincerely,

Ragnar-Olaf Buchweiz,

Vice-Principal (Academic) and Dean

cc. Andrew Drummond, Office of the Governing Council Prof. Safwat Zaky, Vice Provost, Planning & Budget Sheree Drummond, Assistant Provost & Special Assistant

The following is a summary of new programs and program changes proposed by UTSC which, if approved, are to become effective next May with the 2005 Summer Session:

NEW PROGRAMS

(See the Appendix on pages 5 to 10 for specific program requirements.)

Specialist Program in Conservation Biology

This program consists of 14.5 FCEs and leads to a B.Sc. It is limited in enrolment as are all Biology programs (with the exception of the minor program) and has both a co-operative and a non co-operative option. It is designed to prepare students to become practitioners in conservation biology. It is anticipated that approximately 20 students will enrol in the program in the first year and that this number will eventually reach a steady state of approximately 30 students.

Specialist Program in Economics for Management Studies

This program consists of 16.0 FCEs and leads to a B.B.A. It is limited in enrolment as are all Economics programs (with the exception of the minor program). It is designed for those students wishing a substantial component of Economics within a Management degree and, perhaps, seeking to prepare themselves for study at the M.A. level.

At the same time, UTSC plans to bring the title and requirements of the Specialist (Co-operative) Program in Economic Policy Management and Data Analysis into line with the new program in order to offer both a co-operative and a non co-operative version of the Specialist Program in Economics for Management Studies. It is anticipated that approximately 10 students will enrol in the program in the first year and that this number will eventually reach a steady state of approximately 30 students.

Specialist Program in Environmental Physics

This program consists of 15.0 FCEs and leads to a B.Sc. It arises as a result of student demand for an Environmental Science program that provides a stronger Physics background. It will be a program eligible for inclusion in the Co-operative Program in Physical Sciences. It is anticipated that approximately 5 students will enrol in the program in the first year and that this number will eventually reach a steady state of approximately 10 students.

At the same time, in order to give a higher profile to the individual areas of Environmental Science and, in particular, to Environmental Chemistry, UTSC plans to replace the streams in the Specialist Program in Environmental Science (Environmental Geoscience, Environmental Biology and Environmental Chemistry) with three distinct programs entitled:

- Specialist Program in Environmental Geoscience
- Specialist Program in Environmental Biology
- Specialist Program in Environmental Chemistry

This change will not affect program requirements.

Specialist Program in Management and Information Technology

This program consists of 16.5 FCEs and leads to a B.B.A. It is limited in enrolment as are all Management programs and has both a co-operative and a non co-operative option. It is designed for those students who wish to combine studies in Management with studies in Computer Science. This type of program has proved popular at other universities and might bring students to the University of Toronto who would otherwise not apply here. It is anticipated that approximately 10 students will enrol in the program in the first year and that this number will eventually reach a steady state of approximately 20 students.

Specialist Program in Management and Humanities Specialist Program in Management and Life Sciences Specialist Program in Management and Sciences Specialist Program in Management and Social Sciences

These programs are limited in enrolment and lead to a B.B.A. They have both a co-operative and a non co-operative option and combine study in Management with an unspecified major program from:

- The Department of Humanities
- The Department of Life Sciences
- The Department of Computer and Mathematical Sciences or the Department of Physical and Environmental Sciences
- The Department of Social Sciences.

Most students enter Management programs directly from high school so it is difficult to estimate the number of students who will enrol in the programs in the first year because few will be aware of them. However, the UTSC Division of Management is committed to admitting 70 students per year to the cluster of programs once they reach steady state.

It is expected that, in the future, these generic programs may lead to more specific programs, e.g. Management and City Studies or Management and Psychology, that would replace some of the basic B.B.A. courses with specific courses linked to the requirements of students in the program.

Major Program in Diaspora and Transnational Studies Minor Program in Diaspora and Transnational Studies

These programs which lead to a B.A. will be part of the new Centre of Diaspora and Transnational Studies and will be offered on all three campuses. (Similar proposals are being brought forward by the Faculty of Arts and Science and the University of Toronto at Mississauga.) The major program will consist of 7.0 FCEs and the minor program of 4.0.

Diaspora and Transnational Studies answers the need for a program that will make sense for our students, many of whom have multiple and transnational affiliations, of Toronto, the world, and themselves. What distinguishes these programs, apart from their tricampus nature, is their interdisciplinary and comparative focus. Students will be required to take courses from the Humanities and the Social Sciences. It is anticipated that approximately 20 UTSC students will enrol in the program in the first year and that this number will eventually reach a stead state of approximately 50 students.

PROGRAM DELETIONS

There are no program deletions.

PROGRAM CHANGES

Program	Change
Specialist, Major and Minor Programs in Anthropology	Updating options.
Arts Management – Specialist (Co-operative) Program	Adding options to required courses to provide more flexibility.
Major Program in Astrophysics & Physics	Updating course requirements and options to accommodate a change in Physics laboratories.
Specialist Program in Cell & Molecular Biology	Changing one of two required 7 to 8 hour laboratories to an option because of difficulties students have fitting both into their schedules.
Major Program in City Studies	Updating options.
Major Program in Cognitive Science	Providing options for the statistics requirement.

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Program	Change
Specialist Program in Cognitive Science	Updating options.
All Specialist Programs in the Department of Computer & Mathematical Sciences	 Adding a writing requirement (one course from a list of courses in the Departments of Humanities and Social Sciences which have a substantial writing component but do not have prerequisites). At the same time, students in major programs will be advised strongly (but not required) to take a course from the same list.
Specialist in Computer Science	 Correcting an oversight in 2002/03 when the program was redesigned by changing a required course in the Comprehensive stream into an option. Updating options in the Comprehensive and Information Systems streams.
Major Program in Drama	Updating options.
Specialist (Co-operative)	See also "New Programs" above.
Program in Economic Policy Analysis and Data	Changing the name to Specialist (Co-operative) Program in Economics for Management Studies
Management	Bringing requirements into line with the new non co-operative Specialist Program in Economics for Management Studies.
Major Program in Economics for Management Studies	Adding a course to the requirements and, in order not to increase the number of FCEs required for the program, reducing the number of additional unspecified credits in Economics required by 0.5.
Major Program in English	Updating options.
Specialist Program in English	 Reducing by 0.5 FCE of the requirement for pre-1900 courses because of difficulties students have meeting the requirement. (The discipline feels this can be done without compromising the integrity of the program.) Updating options.
Major Program in Environmental Science	Updating options in the Environmental Biology stream.
Specialist Program in Environmental Science	See also "New Programs" above. Destreaming the program and creating three distinct programs entitled: Specialist Program in Environmental Geoscience Specialist Program in Environmental Biology Specialist Program in Environmental Chemistry
Specialist Program in	Replacing a required course that is being withdrawn from the curriculum
Environmental Biology Specialist (Joint) Program in Environmental Science & Technology	with another course Replacing a required course that is being withdrawn from the curriculum with another course
Major Program in French	Updating options.
Minor Program in French as a Second Language	Updating options.
Major Program in Health Studies	Adding a B.Sc. requirement for 5.0 science credits. (The program can lead to a B.A. or a B.Sc. but the requirements for a B.Sc. have never been made explicit.)
Specialist Program in Human Biology	Removing the B-level laboratory options making the Animal Physiology laboratory the required laboratory course.
Specialist (Joint) Program in Industrial Microbiology	 Changing a laboratory with limited availability from a requirement to an option which changes the number of credits required from 16.5 to 16. (The program will still involve a great deal of lab-based work.) Updating options.
Specialist and Major Programs in Integrative Biology	Updating options.

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Program	Change
Minor Program in Integrative Biology	Changing the name to "Minor Program in Biology since a program that consists of 4.0 FCEs does not guarantee the breadth implied by the word "Integrative".
Major Program in International Development Studies	Updating options.
Specialist (Co-operative) Program in International Development Studies	 Replacing a required course that has been withdrawn from the curriculum with a choice of one of three courses. Updating options.
Major Program in International Studies	Updating options.
Specialist (Joint) Program in Journalism	 Replacing a required course that is being withdrawn from the curriculum with another course. Updating options.
Major and Minor Programs in Linguistics	Adding French linguistics courses to the options.
Specialist Program in Management	 Adding a requirement for a course in management communication to the co-operative program to be taken prior to the second work term. Updating options (co-op and non co-op).
Specialist Program in Mathematics and Its Applications	Replacing a required course that cannot be offered on a regular basis with another course.
Specialist Program in Medical Anthropology	Providing both a B.A. stream and a B.Sc. stream to better fill the needs of students. (At present only the program leads only to a B.Sc.)
Major Program in Neuroscience	Providing options for the statistics requirement.
Specialist, Major and Minor Programs in Philosophy	Allowing a Mathematics course in logic to be treated as a Philosophy course.
Major Program in Physical & Human Geography	Updating options.
Specialist Program in Physical & Mathematical Sciences	Updating course requirements and options to accommodate a change in Physics laboratories.
Major Program in Physical Sciences	Updating options to accommodate a change in Physics laboratories.
Specialist Program in Physics & Its Applications	Updating course requirements to accommodate a change in Physics laboratories. (This result in total number of credits required for the program changing from 13.5 to 14.)
Specialist Program in Political Science and Economics for Management Studies	Updating options.
Specialist Program in Psycholinguistics	Adding French linguistics courses to the options.
Major and Minor Programs in Psychology	Providing options for the statistics requirement.
Specialist (Co-operative) Program in Psychology and Its Applications	Adding 1.0 FCE in A-level Biology to the required courses in the Behavioural Disorders stream. (These courses are already hidden requirements since they are prerequisites for another course in the program.)
Minor Program in Religion	Updating options.
Major Program in Women's Studies	Updating options.

APPENDIX

Specialist Program in Conservation Biology

The specific course requirements of the program (14.5 FCEs) are as follows:

1. 4.5 FCEs consisting of the core curriculum components: BGYA01H Introductory Biology: Part I BGYA02H Introductory Biology: Part II BGYB10H Cell Biology BGYB11H Molecular Aspects of Cellular and Genetic Processes BGYB30H Mammalian Physiology I BGYB31H Plant Physiology BGYB50H Ecology **BGYB51H** Evolutionary Biology BGYB52H Ecology and Evolutionary Biology Laboratory 2. 3.0 FCEs in essential concepts courses: BGYC58H Consequences of Global Change BGYC59H Advanced Population Ecology **BGYC60H** Restoration Ecology BGYC61H Community Ecology and Environmental Biology **BGYC63H Conservation Biology** BGYD60H Landscape Ecology 3. 2.0 FCEs from Practical Field Conservation or Basic Ecology courses: BGYC52H Ecology Field Course BGYC53H Marine Biology BGYC54H Animal Behaviour BGYC57H Evolutionary and Applied Biology of Insects BGYC62H Role of Zoos in Conservation BGYC67H Advanced Field Course in Ecology BGYD33H Comparative Environmental Physiology **BGYD51H** River Ecology BGYD52H Senior Seminar in Conservation Biology 4. 0.5 FCE from Impact Assessment/Monitoring/Data Analysis: **BGYC65H** Environmental Toxicology EESC03H Geographic Information Systems and Remote Sensing EESC13H Environmental Impact Assessment and Auditing EESC30H Microbial Biogeochemistry EESD15H Cleaning up our Mess: Remediation of Terrestrial and Aquatic Environments 5. 0.5 FCE from Social Issues/Sustainability: GGRB20H Environmental Conservation and Sustainable Development IDSB02H International Development Studies: Development and Environment POLB90H Comparative Development in International Perspective SOCC37H Environment and Society 6. 1.0 FCE in: CHMA10H Introductory Chemistry I: Structure and Bonding CHMA11H Introductory Chemistry II: Reactions and Mechanisms 7. 2.0 FCEs in Environmental Science courses: EESA06H Introduction to Planet Earth EESC04H Biodiversity and Biogeography GGRA02H The Geography of Global Processes GGRA30H Geographic Information Systems (GIS) and Empirical Reasoning 8. 1.0 FCE in

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STAB22H Statistics I STAB27H Statistics II

In addition to the programs requirements, students in the co-operative program will have to complete two work terms and maintain a cumulative grade point average of at least 2.5 throughout the program.

Specialist Program in Economics for Management Studies

The specific course requirements of the program (16.0 FCEs) are as follows:

1. 8.5 full-credit equivalents in Economics for Management Studies including:

ECMA04H Introduction to Microeconomics: A Mathematical Approach

ECMA06H Introduction to Macroeconomics: A Mathematical Approach

ECMB02H Price Theory: A Mathematical Approach

ECMB06H Macroeconomic Theory and Policy: A Mathematical Approach

ECMB11H Quantitative Methods in Economics I

ECMB12H Quantitative Methods in Economics II

ECMC02H Topics in Price Theory

ECMC06H Topics in Macroeconomic Theory

ECMC11H Introduction to Regression Analysis

ECMC12H Theory and Practice of Regression Analysis

ECMC13H Advanced Microeconomic Theory

ECMC14H Advanced Macroeconomic Theory

ECMD50H Workshop in Economic Research

And two additional FCEs in Economics for Management Studies including at least one at the C-level.

2. CSCA02H The Why and How of Computing

MATA27H Introduction to Optimization

3. MGTA03H Introduction to Management I

MGTA04H Introduction to Management II

MGTB03H Management Accounting

MGTB05H Financial Accounting I

MGTB06H Financial Accounting II

MGTB23H Managing People in Organizations

MGTB29H Managing Groups and Organizations

MGTC03H Principles of Finance

MGTC24H Managerial Skills

MGTC74H Analysis for Decision-Making

And 0.5 FCE from the strategic management options as described in the B.B.A. Program in the Management section of the calendar.

4. At least 1.0 FCE from courses within the Department of Humanities.

In addition to the programs requirements, students in the co-operative program will have to complete three work terms and maintain a cumulative grade point average of at least 2.5 throughout the program.

Specialist Program in Environmental Physics

The specific program requirements (15.0 FCEs) are as follows:

Year 1	PHYA10H	Introduction to Classical Physics
	PHYA21H	Introduction to Modern Physics
	MATA30H	Calculus I

MATA36H Calculus II for Physical Sciences

CHMA10H Structure and Bonding
CHMA11H Reactions and Mechanisms

EESA01H Introduction to Environmental Science

EESA06H Planet Earth MATA23H Linear Algebra I

Year 2	PHYB20H PHYB21H CHMB55H EESB02H EESB03H EESB04H EESB05H PSCB57H	Waves and Vibrations Electricity and Magnetism Environmental Chemistry Principles of Geomorphology Principles of Climatology Principles of Hydrology Principles of Soil Science Introduction to Scientific Computing
Year 3	PHYB10H PHYB11H STAB22H EESB15H EESC03H EESC31H EESC15H EESC07H [EESC18H or EESC19H]	Intermediate Physics Laboratory I Intermediate Physics Laboratory II Statistics Earth History Remote Sensing and Geographical Information Systems Glacial Sedimentology and Stratigraphy Research Seminar in Environmental Science Groundwater The Great Lakes Marine Systems
Year 4	EESC13H PSCD01H 1.0 FCE from: EESC21H EESD02H EESD06H	Environmental Impact Assessment and Auditing The Physical Sciences in Contemporary Society Urban Environmental Problems of the Greater Toronto Area Contaminant Hydrogeology Climate Change Impact Assessment Y Research Project in Environmental Science Process Hydrology Contaminant Fate in Terrestrial Environments

Specialist Program in Management and Information Technology

The specific course requirements of the program (16.5 FCEs) are as follows:

A-level courses CSCA08H Introduction to Computer Programming CSCA48H Introduction to Computer Science CSCA65H Mathematical Expression and Reasoning for Computer Science Introduction to Microeconomics: A Mathematical Approach ECMA04H ECMA06H Introduction to Macroeconomics: A Mathematical Approach MGTA03H Introduction to Management I Introduction to Management II MGTA04H MATA23H Linear Algebra I MATA30H Calculus I MATA37H Calculus II for Mathematical Sciences

B-level courses	
CSCB07H	Software Design
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CSCB36H	Introduction to the Theory of Computation
CSCB58H	Computer Organization
CSCB63H	Design and Analysis of Data Structures
ECMB02H	Price Theory: A Mathematical Approach
ECMB06H	Macroeconomic Theory and Policy: A Mathematical Approach
MATB24H	Linear Algebra II
MGTB03H	Management Accounting
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MGTB04H	Principles of Marketing
MGTB05H	Financial Accounting I
MGTB06H	Financial Accounting II
MGTB23H	Managing People in Organizations
MGTB29H	Managing Groups and Organizations
STAB52H	Introduction to Probability Theory
STAB57H	Introduction to Mathematical Statistics
C lovel cours	0.0

C-level courses

CSCC40H Analysis and Design of Information Systems

CSCC43H Introduction to Databases

[CSCC63H Computability and Computational Complexity

CSCC73H] Algorithm Design and Analysis

MGTC03H Principles of Finance Intermediate Finance MGTC09H Managerial Skills MGTC24H

MGTC74H Analysis for Decision-Making

D-level courses

CSCD03H Social Impact of Information Technology

In addition to the requirements above, students in the co-op version of the program will have to complete three work terms and maintain a cumulative grade point average of at least 2.5 throughout the program.

Specialist Program in Management and Humanities Specialist Program in Management and Life Sciences Specialist Program in Management and Sciences Specialist Program in Management and Social Sciences

The specific requirements of the programs are as follows:

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1. MGTA03H Introduction to Management I
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MGTA04H Introduction to Management II

MGTB03H Management Accounting

MGTB04H Principles of Marketing

MGTB05H Financial Accounting I

MGTB06H Financial Accounting II

MGTB23H Managing People in Organizations

MGTB29H Managing Groups and Organizations

MGTC03H Principles of Finance

MGTC09H Intermediate Finance

MGTC24H Managerial Skills

MGTC74H Analysis for Decision-Making

2. ECMA04H Introduction to Microeconomics: A Mathematical Approach

ECMA06H Introduction to Macroeconomics: A Mathematical Approach

ECMB02H Price Theory: A Mathematical Approach

ECMB06H Macroeconomic Theory and Policy: A Mathematical Approach

ECMB11H Quantitative Methods in Economics I

ECMB12H Quantitative Methods in Economics II

3. MATA27H Introduction to Optimization

[MATA30H Calculus I

One of:

MATA35H Calculus II for Biological Sciences

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Or

MATA36H Calculus II for Physical Sciences

Or

MATA37H] Calculus II for Mathematical Sciences

 CSCA02H The Why and How of Computing Students familiar with the material in CSCA02H may substitute CSCA08H (Introduction to Computer Programming)

5. All of the requirements of one of the majors from the appropriate Department(s)

6. Students may if they wish take up to one additional FCE from among the courses in MGT and ECM

NOTE: Requirements 1, 2 and 6 effectively limit the number of MGT and ECM courses to 10 FCEs (although, of course, students are only required to complete 9 FCEs in MGT and ECM). Students in this program will therefore have to complete at least 10 FCEs outside of MGT and ECM, and most of these courses will naturally constitute the requirements of the major program.

In addition to the requirements above, students in the co-op version of the program will have to complete three work terms and maintain a cumulative grade point average of at least 2.5 throughout the program.

Major Program in Diaspora and Transnational Studies

The specific requirements of the program are as follows:

- DTSB01H Introduction to Diaspora and Transnational Studies I DTSB02H Introduction to Diaspora and Transnational Studies II
- 2. 5.0 FCEs from Group A and B courses with at east 2.0 FCEs from each group (see below). Coverage must include at least two diasporic communities or regions, to be identified in consultation with the program advisor.
- 3. Two D-level capstone seminars (1.0 FCE).
- 4. At least one other course must be at the C-level or above.

Minor Program in Diaspora and Transnational Studies

The specific requirements of the program are as follows:

- DTSB01H Introduction to Diaspora and Transnational Studies I DTSB02H Introduction to Diaspora and Transnational Studies II
- 3.0 FCEs from Group A and B courses with at least 1.0 FCE from each group (see below).
 Coverage must include at least two diasporic communities or regions, to be identified in consultation with the program advisor.
- 3. At least 1.0 FCE must at the C-level or above.

Group A (Humanities courses)

ENG B17H	Contemporary Literature from the Caribbean	
ENGC13H	Ethnic Traditions in American Literature	
ENG C70H	The Immigrant Experience to 1980	
ENGC71H	Immigrant Experience in Literature II	
ENGD87H	Between Traditions and Freedoms: Writing by Canadians of Asian Descent	
FREB28H	The Francophone World	
FREB35H	Francophone Literature	
FREB70H	Cinema of the Francophone World	
FREC47H	Special Topics in Linguistics: Pidgin and Creole Languages	
HISC14H	Edible History: History of Global Foodways	
HISC36H	People in Motion: Immigrants and Migrants in US History	
HISC45H	Immigrants and Race Relations in Canadian History	
HISC48H	Black Canadian History	
VPAB09H	Dialogues in the Diaspora	
VPAB50H	Africa through the Photographic Lens	
VPHC52H	Issues in Contemporary Global Arts	
Plus courses identified by the Faculty of Arts & Science or by UTM as Group A courses.		

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Group B (Social Sciences courses)

ANTB08H The Chinese Diaspora

ANTC34H The Anthropology of Transnationalism

GGRC19H Spaces of Multiraciality: Critical Mixed Race Theory

GGRC45H Local Geographies of Globalization
POLA81H Leaving Home: Politics and Emigration
SOCC25H Comparative Ethnic and Race Relations]

SOCC34H Globalization: Causes, Consequences and Critique

Plus courses identified by the Faculty of Arts & Science or by UTM as Group B courses.