A special meeting of Senate was held on February 8, 2005, at 4:00 p.m. in Room E5004, Education Building.

64. PRESENT

The President, Dr. E. Campbell, Dr. C. Loomis, Dr. J. Ashton, Dr. S. Birnie-Lefcovitch, Dean A. Collins, Mr. G. Collins, Mr. R. Ellis, Dr. T. Gordon, Dean G. Gorman, Dean R. Gosine, Dean D. Graham, Dr. L. Hensman, Dr. C. Higgs, Dean C. Jablonski, Dr. S. LeFort, Dean R. Lucas, Dr. P. Fisher (for Mr. L. O’Reilly), Dean L. Walker, Ms. D. Whalen, Dr. R. Adamec, Professor P. Ayres, Mr. K. Baker, Professor L. Bateman, Dr. G. Clark, Dr. M. Daneshtalab, Dr. J. Harris, Dr. L. Hermanutz, Dr. O. Janzen, Professor V. Kuester, Dr. D. McKay, Dr. M. Morrow, Dr. M. Mulligan, Dr. F. Murrin, Dr. W. Okshevsky, Dr. D. Peters, Dr. J. Quaicoe, Dr. V. Richardson, Dr. D. Rideout, Ms. L. Scott, Dr. S. Shah, Dr. F. Shahidi, Dr. M. Tate, Dr. P. Trnka, Dr. D. Tulett, Professor D. Walsh, Dr. S. Wolinetz, Dr. J. Wright, Dr. J. Wyse, Mr. S. Jensen, Mr. S. Sullivan, Mr. M. Byrne, Mr. C. Flaherty, Mr. L. Gaulton, Mr. L. MacFadden, Ms. R. Magalios, Mr. M. Parcon.

Ms. Shannon Sharpe, Marine Institute Students’ Union, Ms. Jennifer Porter, Registrar’s Office, and Keith Matthew, CIAP, were in attendance by invitation.

65. APOLOGIES FOR ABSENCE

Apologies were received from Dr. D. Kimberley, Dr. S. Kocabiyik, Dr. S. Peters, Dr. C. Popadiuk, Dr. W. Schipper, Dr. C. Sharpe, Mr. A. Ababneh, Mr. T. McDonald.

66. FINAL REPORT OF THE AD HOC COMMITTEE OF SENATE TO RESPOND TO THE WHITE PAPER ON POST-SECONDARY EDUCATION AND COST-RECOVERY COURSES AND PROGRAMS

By way of opening this special meeting of Senate, The President noted that Dr. Steve Wolinetz, Chair of the Ad Hoc Committee, would present the majority report; Mr. Cletus Flaherty, Vice President Academic, MUNSU, would present the minority report; following which there would be question and answer period.

Dr. Steve Wolinetz, Chair of the Ad Hoc Committee then presented the Report on Cost-Recovery Courses and Programs, as requested by Senate at its September, 2004 meeting. Dr. Wolinetz drew the attention of Senators to a necessary correction on page 9 of the report noting that the word “not” should be inserted between “would” and “normally” on line 2 of item 4.3.2.

Dr. Wolinetz began his presentation by noting that the Ad Hoc Committee found this a complex and difficult subject with which to grapple. In considering the report, Dr. Wolinetz urged Senators to pay careful attention to the definitions and types of program funding laid out in section 2 of the majority report.

Dr. Wolinetz reminded Senators that this Ad Hoc Committee was struck by Senate to accomplish two main tasks: 1) to draft responses to the Commissioner and Advisor appointed in respect to the White Paper on Public Post-Secondary Education and 2) to review and advise Senate on the matter
of cost-recovery courses and programs as outlined in the memorandum from Dr. David L. Thompson from the summer of 2004.

Dr. Wolinetz noted that this majority report is an effort to frame for debate the issues surrounding cost-recovery courses and programs, with particular reference to the concerns raised by Dr. Thompson and paraphrased below:

- The use of tuition fees that are exclusionary
- The potential detrimental impacts on pre-existing programs
- The lack of clarity on how proposals should be assessed
- The possible configuration of university based on what the market will bear, not on academic policies and norms.

Dr. Wolinetz emphasized that the governing principles contained in this report are designed to assist Senate and others in the assessment of proposals that are likely to continue to come forward for such programs and should enable Senate to make recommendations to the Board of Regents about how it might handle these proposals for courses and/or programs with fees different from the norm. Dr. Wolinetz ended his presentation of the report with a motion that the majority report be received. This motion which was seconded by Professor Walsh was carried.

Mr. Cletus Flaherty then presented the minority report dated January 19, 2005, entitled MUNSU Response to Cost-Recovery Courses and Programs.

Mr. Flaherty stated that undergraduate students believe that cost-recovery programs have, for the most part, no place in a public university. It is the view of MUNSU that cost recovery programs open the doors to myriad problems including the growing privatization of campus and the ensuing constraints on academic integrity and freedom; the traditional low degree of accessibility to such overpriced programs, as well as the leeching effect that these programs may have on core programs. Mr. Flaherty suggested that in the end the supposed “cost recovery” programs actually result in an overall loss and drain upon departments and the University.

Mr. Flaherty noted that undergraduate students, however, draw a distinction between variations in the cost-recovery model. For example, MUNSU supports a model whereby another publicly funded organization funds the tuition over and above the average amount paid by students in order for a program to exist.

Mr. Flaherty ended his presentation by stating that undergraduate students believe that the funding problem facing the University and its departments can not be solved through premium tuition fees. The University should in unambiguous terms communicate the needs of the University and its students and demand the increased funding come from the government, instead of concentrating on tuition fee schemes as the solution to the funding problem.

It was moved by Mr. Flaherty, seconded by Mr. McFadden, and carried that the ‘minority’ report be received.

Following a question and answer period involving a large number of Senators, it was then moved by Dr. Wolinetz, seconded by Professor Walsh, and carried that the five recommendations contained in the majority report and as given below be approved:
Recommendations:

1. That Senate adopt the principles described in section 4.1, and use them in its consideration of new programs.

2. That Senate recommend premium tuition fees for academic programs only if there is a clear and demonstrable benefit accruing to the students in the program, the unit offering the program and the university as a whole (4.2.1).

3. That premium tuition programs should be subject to triennial review of both their academic merits and the degree to which stated benefits to students, the units concerned, and the university as a whole, are being delivered (4.2.2).

4. That proposals for premium tuition programs should contain a clear exit strategy, enabling the university to end the program if costs prove to be too high or the program is unable to meet its expectations or is no longer needed (4.2.3).

5. That Senate recommends that the Board of Regents adopt these principles and use them in its evaluation of proposals for cost-recovery and premium tuition programs.

For ease of reference, that section of the Report outlining the Principles is given below in its entirety:

“4.1 General Principles

In light of the above, is there a place for either cost-recovery programs or programs which charge premium tuition fees? The members of the committee have concluded—some of us reluctantly—that there is a place for such programs, but believe that it should be limited, and that such programs be established and continued only if they meet certain conditions. In our view, the normal practice at Memorial should be:

4.1.1 The overwhelming proportion of undergraduate and graduate students should pay the same levels of tuition fees and, in doing so, should have access to the complete or nearly complete range of programs which the university has to offer. Putative future income should not be a standard for assessing tuition. Our system of taxation is sufficiently fair that those who earn more, assuming that they remain in the province and in the country, will pay more in taxes over their working careers.

4.1.2 Proposals for new programs should only be approved if the university and the unit concerned can implement the proposed program without deflecting resources from normal activities.

4.1.3 Any proposed program must not compromise the academic integrity of the university. The proposed program must maintain acceptable admissions requirements and uphold the quality of instruction and course content by ensuring both are approved through all normal routes.

4.1.4 Each proposal should be evaluated on a case-by-case basis to establish its feasibility and suitability.

4.1.5 Furthermore, neither the Senate nor the Board of Regents should accept the claim that market demand for premium tuition programs and the willingness of students to pay more for them, inside or outside of the province, is a sufficient reason for introducing them. In our view, academic programs should be approved only on the basis of their intrinsic merits and the ability of the units proposing them to offer them.
4.1.6. Cost-recovery, premium fee or agency-funded programs should be considered only in circumstances in which it can be demonstrated that there is a pressing demand or need for the program. As per section 3 above programs so considered must have intrinsic merits, and it must be demonstrated that charging a premium or cost-recovery fee would make it possible to offer a program which otherwise could not be offered.

Thus, notwithstanding the Strategic Framework of Memorial University of Newfoundland which recognizes the need to develop new revenue streams, at a public university programs with a tuition fee structure that differs from the norm should be the exception rather than the rule.

4.2 Principles Related to Premium Fees

In instances in which premium fee programs are proposed, there should be a detailed examination not only of demand for the program and willingness of students to pay additional fees in order to participate, but also of the ways in which the additional revenues will be used.

4.2.1. Premium tuition fees should be permitted only if there is a clear and demonstrable benefit accruing to:

- Students in the program.
- The unit offering the program.
- The university as a whole.

There are several reasons for imposing these conditions. The first is perhaps most apparent: students who are asked to pay more for a particular program should benefit from the resources which would otherwise not be available. The second and third reflect the fact that a university is a community in which common resources are shared, in most instances, to the benefit of all. Although synergies result from the pooling of these resources, time, energy, and funds are finite. Time and effort and space devoted to new premium programs will inevitably detract from time, effort, and space needed for existing programs. Therefore it is reasonable that some kind of demonstrable benefit accrue both to the unit involved and to the university as whole.

In addition, we believe that premium tuition programs should undergo a more frequent schedule of evaluation and accountability. Our current practice is to subject all programs to an academic program review every seven years. Premium tuition programs should be evaluated every three years, in order to assure these conditions are met.

4.2.2. Premium tuition programs should be subject to triennial review of both their academic merits and the degree to which prospective benefits to students, the units concerned, and the university as a whole, are being delivered.

Finally, we believe that proposals for premium tuition programs should contain an exit or wind-up strategy which can be implemented if costs prove to be too high, benefits as stipulated insufficient, or the program itself proves to be inadequate or no longer needed. There are a number of reasons for this. First, any such program is likely to involve both start-up costs and a measure of risk to the university and the units that proposed such programs. Insistence on feasible exit strategies will minimize these risks.

4.2.3. Proposals for premium tuition programs should contain a clear exit strategy, enabling the university to end the program if costs prove to be too high or the program is unable to meet its expectations or is no longer needed.
The conditions which we have proposed are stricter than those applied to normal academic programs. We believe that these conditions are useful because they require those proposing premium tuition programs to demonstrate not only the need for the program and that the program cannot be mounted within existing resources, but also the ways in which the program will benefit not only the students enrolled in it, but also the unit concerned and the university as a whole. Application of these tests will permit the introduction of premium fee programs where there is clear demand and no alternate means to mount the program, but at the same time preserve the principle that the overwhelming proportion of academic programs will be available to the overwhelming proportion of students at similar levels of cost.

4.3 Principles Related to Agency Funding

Agency funding occurs when an outside organization (e.g. a volunteer association or a government department, but also in certain circumstances, a private company) pays for the additional costs of the program, as defined in section 2.2. Instances in which students are accepted by normal means into already existing programs are of no consequence to the university. Instances in which an outside organization asks either that qualified students who would not otherwise have access to existing programs or that programs, existing or proposed, be offered to students to whom they would not otherwise be available are problematic. There are two instances in which the University is justified in recovering costs and in certain cases, additional fees beyond basic costs.

4.3.1. In instances in which an outside organization asks that an existing program be delivered to a group of students to whom it would not ordinarily be available – e.g. the Bachelor of Education by distance to University College of Cape Breton Students – the University should recover a) whatever incremental costs are involved in offering the program, and b) in keeping with 4.2, some additional revenues in light of the likely diversion of some resources (e.g. time and space) from existing programs.

4.3.2. In instances in which University contracts with an outside organization to deliver new programs to groups of students whom it would not normally enroll, the University is justified in recovering the additional costs incurred from that organization.

In each instance, students enrolled in the program must meet normal admission and continuance requirements, and the programs themselves must be of intrinsic merit, as indicated in section 3 above. The question of whether cost-recovery or premium fees should be charged should depend on the nature of the organization making the request. Because we are a public university funded in large measure by the Province of Newfoundland and Labrador, there are reasons why charges levied for programs requested by the provincial government and its agencies might differ from those levied on outside agencies making similar requests.”

The President thanked all members of the Ad Hoc Committee and particularly Dr. Wolinetz for Chairing the Committee.

67. ADJOURNMENT

The meeting adjourned at 4:55 p.m.
MEMORIAL UNIVERSITY OF NEWFOUNDLAND
SENATE

The regular meeting of Senate was held on February 8, 2005, at 4:55 p.m. in Room E5004, Education Building.

68. PRESENT

The President, Dr. E. Campbell, Dr. C. Loomis, Dr. J. Ashton, Dr. S. Birnie-Lefcovitch, Dean A. Collins, Mr. G. Collins, Mr. R. Ellis, Dr. T. Gordon, Dean G. Gorman, Dean R. Gosine, Dean D. Graham, Dr. L. Hensman, Dr. C. Higgs, Dean C. Jablonski, Dr. S. LeFort, Dean R. Lucas, Dr. P. Fisher (for Mr. L. O’Reilly), Dean L. Walker, Ms. D. Whalen, Dr. R. Adamec, Professor P. Ayres, Mr. K. Baker, Professor L. Bateman, Dr. G. Clark, Dr. M. Daneshtalab, Dr. J. Harris, Dr. L. Hermanutz, Dr. O. Janzen, Professor V. Kuester, Dr. D. McKay, Dr. M. Morrow, Dr. M. Mulligan, Dr. F. Murrin, Dr. W. Okshevsky, Dr. D. Peters, Dr. J. Quaicoe, Dr. V. Richardson, Dr. D. Rideout, Ms. L. Scott, Dr. S. Shah, Dr. F. Shahidi, Dr. M. Tate, Dr. P. Trnka, Dr. D. Tulett, Professor D. Walsh, Dr. S. Wolinetz, Dr. J. Wright, Dr. J. Wyse, Mr. S. Jensen, Mr. S. Sullivan, Mr. M. Byrne, Mr. C. Flaherty, Mr. L. Gaulton, Mr. L. MacFadden, Ms. R. Magalios, Mr. M. Parcon.

Ms. Shannon Sharpe, Marine Institute Students’ Union, was in attendance by invitation.

69. APOLOGIES FOR ABSENCE

Apologies were received from Dr. D. Kimberley, Dr. S. Kocabiyik, Dr. S. Peters, Dr. C. Popadiuk, Dr. W. Schipper, Dr. C. Sharpe, Mr. A. Ababneh, Mr. T. McDonald.

70. MINUTES

The Minutes of the regular meeting held on January 11, 2005, 2004, were taken as read and confirmed.

REPORT OF THE EXECUTIVE COMMITTEE OF SENATE

It was agreed by separate motion where necessary, that the report of the Executive Committee be approved as follows:

CONSENT AGENDA

It was moved by Professor Walsh, seconded by Dr. Jablonski, and carried that the consent agenda, comprising Items 71 through 72 below, be approved as follows:

71. REPORT OF THE SENATE COMMITTEE ON UNDERGRADUATE STUDIES

71.1 Department of Religious Studies

Page 193, 2004-2005 Calendar, under the heading Religious Studies, subheading Course List, insert the following new courses:
Department of Religious Studies (cont’d)

“2415. Introduction to Hindu Gods and Goddesses. A course focused on myth, iconography and ritual of Hindu gods and goddesses from the ancient to the contemporary period. The course will explore fundamental assumptions of Hindu theistic traditions in popular practice and in formal religious institutions.

3411. The Ramayana. A study of one of most influential Epics of Hinduism, the story of Rama, the perfect king of a golden age. The course examines various versions of the narrative from Buddhist to sectarian Hindu, the Hindu and Indian values expressed through the story, and the Epic’s place in Indian politics and in drama and visual art of India and the Hindu diaspora.

3412. The Teachings of the Upanishads. An in-depth examination of some of the principal Upanishads, foundational texts for Hindu religious philosophy and techniques of mediation. The course also examines classical and modern interpretations of these texts.”

Delete the course “2050. Introduction to the Hebrew Bible/Old Testament” in its entirety and replace with the following:

“2050. Introduction to the Old Testament. This course is an introduction to the historical background, literary structure, and content of the Old Testament. Emphasis will be placed on the authorship and dating of the various texts that comprise the Old Testament, as well as on major themes, figures, and events. This course may qualify as a Research/Writing course. Consult each semester’s registration materials for the R/W designation.”

71.2 Department of Political Science

Page 191, 2004-2005 Calendar, under the heading Course List, insert the following new courses:

“2010. Power, Democracy, and Politics. This course examines the relationship between power and democracy. Focusing on the role of the citizen in politics, it introduces students to research and writing in political science. Questions to be considered: Who counts? Who is in charge? What difference does it make? This course qualifies as a Research/Writing course.

4950. Honours Essay I. Students will prepare a research proposal and drafts of at least one section of the honours essay. Students writing the honours essay are expected to meet regularly with their supervisor and to participate in occasional colloquia on research design. Prerequisites/Co-requisites: Permission of the Head of the Department. NOTE: Credit may not be obtained for Political Science 4950 and the former 490A.

4951. Honours Essay II. Students will complete the writing of their honours essay. Students writing the honours essay are expected to meet regularly with their supervisor and to participate in occasional colloquia on their research. Prerequisites: Completion of Political Science 4950 with a minimum grade of 70%. NOTE: Credit may not be obtained for Political Science 4951 and the former 490B.”
Department of Political Science (cont’d)

Delete the courses “3900” and “490A/B” in their entirety.

Page 191, 2004–2005 Calendar, under the heading Requirements for Minors, amend clause “b)” to read as follows:

“b) Students...Political Science 2000, 2010, 2200...”

Page 190, 2004–2005 calendar, delete the section entitled “Honours Program”, in its entirety and replace with the following:

“HONOURS PROGRAM

An Honours degree may be required for admission to post-graduate programs in Political Science, and may be useful preparation for law and other professional fields. Students considering an Honours program are encouraged to apply to the Department early, preferably during their third or forth terms. Students are admitted to the Political Science Honours Program in accordance with University and Faculty of Arts Honours Degree regulations. To qualify for the B.A.(Hons.) Degree in Political Science, a student must complete at least 60 credit hours in courses offered by the department.

a) Political Science 1000, 1010, or 1020, are recommended as first courses for any student majoring in Political Science. No more than two of these courses may be counted toward the 60 credit hours in Political Science required for an Honours degree.

b) Students must complete a minimum of 15 credit hours in courses at the 2000-level including Political Science 2010 or 2500, Political Science 2710 and 2711, and Political Science 2200 or 2300;

c) Political Science 3010, 3011 and 3100 and

d) At least 15 credit hours in courses numbered 4000 and above, including Political Science 4950 and Political Science 4951 (Honours Essay I and II)

Students must follow the Guidelines Governing Honours Essays provided in Political Science 4950 and available from the Head of the Department.”

71.3 Department of European Studies

Page 166, 2004–2005 Calendar, under the heading European Studies, subheading Course List, insert:

“History 2340. European Urban History”

71.4 Department of Medieval Studies

Page 187, 2004–2005 Calendar, under the heading Medieval Studies, subheading List A: Other Courses Approved for Inclusion in Medieval Studies Major and Minor Programs Subject to the Foregoing Regulations, subheading 3000 level courses:, immediately following “History 3011-20" insert:
71.5 Department of Linguistics

Page 184, 2004-2005 Calendar, under the heading Linguistics Programs and Regulations, subheading General Degree, amend clause “3)” as follows:

“3) Students...chosen from 1100/2100, 2210...3850, 4050-4059, 4100...”

Page 185, 2004-2005 Calendar, under the heading Course Descriptions, delete the course “3201” in its entirety and replace with the following:

“3201. Generative Phonology. This course will present the basic terms, concepts, and methods of Generative Phonology. Theoretical constructs surveyed will include distinctive feature theory and syllable structure. These constructs will be exemplified using phenomena observed in natural languages, including allophony, allomorphy, and processes such as assimilation and neutralization. Students will also be introduced to recent, constraint-based theories of phonology. Prerequisites: Linguistics 1104/2104.”

Delete the course “4150” in its entirety and replace with the following:

“4150. Language Acquisition II. This course provides an evaluation of the theoretical aspects of first and second language acquisition. Theories about the role of linguistic principles, learnability and the role of linguistic input are discussed, in light of research on the acquisition of English and other languages. Prerequisite: Linguistics 3155.”

Delete the course “4201” in its entirety and replace with the following:

“4201. Phonological Theory. The course will familiarize students with current issues in phonological theory. Issues such as phonology in the lexicon, segmental and prosodic representations, the analysis of stress and tonal systems, as well as a comprehensive introduction to constraint-based approaches to phonology will be covered. Students will further develop their ability to analyse phonological data. (Normally offered every year in Winter semester). Prerequisite: Linguistics 3201.”

Unpark the course “4151. Applied Linguistics: Evaluation of Materials”.

Rename the course title for “4151” and add a course description as follows:

“4151. Advanced Topics in Phonological Acquisition. This course focuses on recent developments in research on the first language acquisition of phonology. Findings from experimental and naturalistic studies, as well as their analyses and implications for linguistic theory will be discussed. Topics will cover segmental and prosodic development as well as child-specific processes such as consonant harmony and velar fronting. Prerequisite: Linguistics 4150.”
Department of Linguistics (cont’d)

Add the following credit restrictions to the course “4050-54”:

“NOTE: Except where an exemption is supplied by the head of the department, a student may not obtain credit for more than one course in the 4050-4054 series. Students may not obtain credit for any of the previously offered 4010, 4011, 4020, 4021, 4030, 4031, 4040, 4041 in addition to a course in the 4050-4054 series.”

Add the following credit restrictions to the course “4055-4059”:

“NOTE: Except where an exemption is supplied by the head of the department, a student may not obtain credit for more than one course in the 4055-4059 series. Students may not obtain credit for any of the previously offered 4060, 4061, 4065, 4066, 4070, 4071, 4080, 4081, 4090, and 4091 in addition to a course in the 4055-4059 series.”

71.6 Department of History

Page 181, 2004-2005 Calendar, under the heading Course List, delete the course “1200” in its entirety.

Renumber and rename the course “3230. History of the United States of America: 1763-1865” as follows:

“2600. History of the United States of America to 1865.”

Add the following note to the course “2600”:

“NOTE: Credit cannot be obtained for History 2600 and the former History 3230.”

Renumber the course “3240” as “2610”.

Add the following note to the course “2610”:

“NOTE: Credit cannot be obtained for History 2610 and the former History 3240.”

Delete the course title and course description of the course “2200” and replace as follows:

“2200. Canadian History to Confederation, 1867. A survey of Canadian History to Confederation, 1867.”

Delete the course “3100” in its entirety and replace with:

“2400. A History of Atlantic Canada since 1500. A history of the peoples and provinces of Atlantic Canada from the time of first European contact with First Nations.

NOTE: Credit cannot be obtained for History 2400 and the former History 3100.”
Department of History (cont’d)

Add the following prerequisite to the course “3840”:

“Prerequisite: Twelve credit hours in History.”

Page 180, 2004-2005 Calendar, under the heading History, subheading General Degree, amend clause “2.” to read as follows:

“2. Any one of History 1010-1015 or the sequence...”

Delete clauses “4” and “5” in their entirety and replace with the following:

“4. MAJOR IN HISTORY

Students who undertake a Major in History must complete 36 credit hours in History, including:

a) Three credit hours in a course beginning with the initial digit ‘1’. All first-year courses in History are research/writing courses.

b) At least 12 credit hours in courses with the initial digit ‘2’ including 3 credit hours in one of History 2200, 2210 or 2400.

c) Students should complete at least 9 credit hours in courses with the initial digit ‘2’ before registering in a course with the initial digit ‘3’. Students should obtain advice on the appropriate courses from their faculty advisor.

d) At least 9 credit hours in courses with the initial digit ‘3’. Students must complete History 3840 for which there is a prerequisite of 12 credit hours in History.

e) Students should complete at least 3 credit hours in courses with the initial digit ‘3’ before registering in a course with the initial digit ‘4’.

f) At least 6 credit hours in courses with the initial digit ‘4’.

g) Six additional credit hours in courses with an initial digit beyond ‘1’.

h) The following course may not be used to meet the requirements for a Major in History without the prior written approval of the Head: 4480, 4800, 4821, 4822, and 4999.

i) No more than 15 transfer credit hours in History may be used to fulfil the requirements for a Major in History.

j) Some fourth-year courses may require completion of courses in the same topic/subject area. Such prerequisites are at the discretion of the instructor.

5. MINOR IN HISTORY

Students who undertake a Minor in History must complete 24 credit hours in History, including:
Department of History (cont’d)

a) Three credit hours in a course beginning with the initial digit ‘1’. All first-year courses in History are research/writing courses.

b) At least 9 credit hours in courses with the initial digit ‘2’.

c) Students should complete at least 6 credit hours in courses with the initial digit ‘2’ before registering in a course with the initial digit ‘3’.

d) At least 6 credit hours in courses with the initial digit ‘3’.

e) At least 3 credit hours in courses with the initial digit ‘4’.

f) No more than 9 transfer credit hours in History may be used to fulfil the requirements for a Minor in History.

g) Three additional credit hours in courses with an initial digit beyond “1’.

h) Some fourth-year courses may require completion of courses in the same topic/subject area. Such prerequisites are at the discretion of the instructor.”

Insert the following new courses:

“2340. European Urban History. This course examines the development of urban networks and the growth of specific towns and cities in early modern and modern Europe. We will also study changing perception of how these centres were perceived, and the roles of public spaces and public festivals. Much of this course is devoted to examining the conditions found in urban centres and the impact on local inhabitants. The course concludes with a study of nineteenth-century urban boosterism.
Prerequisite/Co-requisite: At least three credit hours in history.

3665. History of Western Medicine. This course introduces students to the major topics and themes with which historians of medicine are currently engaged. These include the nature of doctor-patient relationships, perceptions of the body, professionalization, patterns of disease, and the development of European public health movements. The course traces the practice of medicine from ancient Greece to the present although the primary focus will be on the period from the 18th to the early 20th century.
Prerequisite/Co-requisite: At least three credit hours in history at the 2000 level or above.

3780. Women in Medieval Europe (500-1500). This course will look at medieval women in their social, political and religious contexts in order to understand women’s lives in the past.
Prerequisite/Co-requisite: At least three credit hours in History at the 2000 level or above.
NOTE: Credit cannot be obtained for History 3780 and the former History 4006.”
71.7 Department of English

Page 162, 2004-2005 Calendar, under the heading Course List, delete “4810-4819. Special Topics.” and replace with “4810-4819 (excluding 4817). Special Topics.”

Rename the course “3817. Writing and Gender” to “3817. Writing and Gender II.”

New course:

“**2700. Writing and Gender I.** Students will investigate the construction of gender in a variety of fiction and non-fiction works, through journals, critical analysis, web discussion, presentations for peers on the themes of the course, and original fiction and non-fiction. Students will be expected to share most of their work with their peers. This course qualifies as a research and writing course.”

New Special Topics course:

“**4817. Utopias and Dystopias in Literature.** This course is a study of representative literary utopias and dystopias, both classic and modern. Prerequisite/Co-requisite: Two 3000-level English courses.”

Page 149, 2004-2005 Calendar, under the heading Diploma in Performance and Communications Media, delete the section entitled “Program of Study” in its entirety and replace with the following:

**“PROGRAM OF STUDY”**

Students must complete a minimum 18 credit hours of course work in the following required courses with an overall average in these courses of at least 65%.

- English 3350 - Theatre
- English 3351 - The Physical Stage and Video Technique
- English 3816 - Television
- English 4400 - Directing
- English 4401 - Producing the Play
- English 4402 - Producing the Documentary

Students must also complete 6 credit hours in English 5000 - Instructional Field Placement. Admission to this instructional field placement course is by application to the Program Coordinator, normally at least three months before the beginning of the placement, and is limited to students who at the time of admission have completed the six courses listed above with an overall average of at least 65% and who already hold a first degree or are in their final year of a degree program as confirmed by the Office of the Registrar.

Page 166, 2004-2005 Calendar, amend the “Prerequisites” for the course “5000” to read as follows:

“Prerequisites: English 3350...4402, with an overall average of 65% in these courses.”
Department of English (cont’d)

Delete the “note” for the course “5000” in its entirety and replace with the following:

“NOTE: Restricted to students in Diploma in Performance and communications Media. Admission is by application to the Program Coordinator, normally at least three months before the beginning of the placement, and is limited to students who at the time of admission have completed the six courses listed above with an overall average of at least 65% and who already hold a first degree or are in their final year of a degree program as confirmed by the Office of the Registrar. Credit for this course can be used only towards the Diploma in Performance and Communications Media.”

71.8 Department of Mathematics and Statistics

Page 229, 2004-2005 Calendar, under the heading Applied Mathematics/Chemistry Joint Honours (B.Sc. only), amend the first paragraph as follows:

“See General Regulations ... Physics 1050 (or 1020) and 1051, the following ...

Amend clause “a)” to read as follows:

“a) Chemistry 2210 ... 4300, 4302, and a 3 credit hour Chemistry elective.”

Delete clause “c)” in its entirety and replace with the following:

“c) Physics 2055, 2056 or 2750, 2820, 3220 and 3230.”

Immediately preceding the heading Pure Mathematics/Computer Science Joint Honours (B.Sc. only), amend the paragraph as follows:

“Chemistry 3410, 3411, 4100, AM 3100, AM/PM 3240 ...”

Page 230, 2004-2005 Calendar, under the heading Applied Mathematics/Physics Joint Honours, delete clause “b)” in its entirety and replace with the following:

“b) Physics 1050 (or 1020) and 1051.”

Amend clause “c)” to read as follows:

“c) Physics 2053, 2055, 2056 or 2750, 2820, 3220, ... ”

Page 231, 2004-2005 Calendar, under the heading Joint Major in Applied Mathematics and Physics (B.SC. ONLY), amend clause “d)” to read as follows:

“d) Physics 1050 (or 1020), 1051, 2053, 2055, 2056 or 2750, 2820, 3220 ...”
Department of Mathematics and Statistics (cont’d)

Page 252, 2004-2005 Calendar, under the heading Major in Applied Mathematics (B.Sc. only), delete clauses “b), c) and d)” in their entirety and replace with the following:

“b) Three credit hours in Applied Mathematics courses numbered 3000 or higher.

c) A computing course, early in your program. AM 2120 is highly recommended.

d) A designated technical writing course offered by a Science department. AM 2130 is recommended. The technical writing course is prerequisite to some 3000-level courses.

e) Physics 1050 (or 1020) and 1051.

f) A statistics course. ST 3410 is recommended.”

Under the heading Major in Pure Mathematics, delete clauses “a), b), c) and d)” in their entirety and replace with the following:

“a) M 1000, M 1001, M 2000, M 2050, M 2051, PM 2320, M 3000, M 3001, PM 3320;

b) One of AM/PM 3202, 3210, 3260;

c) One of PM 3330, 3370;

d) Twelve further credit hours in Pure Mathematics courses numbered 3000 or higher, at least 6 credit hours of which must be in courses numbered 4000 or higher;

e) A computing course. AM 2120 is recommended.

f) A designated technical writing course offered by a Science department. AM 2130 is recommended.

g) A statistics course. ST 3410 is recommended.”

Under the heading Honours in Applied Mathematics (B.Sc. only), amend clause “b)” to read as follows:

“b) ... AM 2120 is recommended.”

Amend clause “c)” to read as follows:

“c) Physics 1050 (or 1020) and 1051, Physics 3220,...”

Amend clause “d)” as follows:

“...AM 4100*, AM 4102* ... AM 4140*, AM 4161*, ... AM/PM 4240*, ...”

Immediately following clause “d)”, insert the following:

“* Inactive Course”

Under the heading Honours in Pure Mathematics, amend clause “e)” to read as follows:

“e) ... AM 2120 is recommended.”
71.9  Department of Biochemistry

Page 226, 2004-2005 Calendar, under the subheading Biochemistry (Nutrition)/Psychology (Behavioural Neuroscience) Joint Honours, amend clause “b)” to read as follows:

“b) Biochemistry 2100, 2101, 3106, 3200...4502, Medicine 310A/B.”

Under the subheading Biochemistry/Psychology (Behavioural Neuroscience) Joint Honours, amend clause “b)” to read as follows:

“b) Biochemistry...3107, Medicine 310A/B, either Biochemistry 4210 or 4211...”

Page 227, 2004-2005 Calendar, under the subheading Physics/Biochemistry Joint Honours, amend clause “e)” to read as follows:

“e) Biochemistry 2100...3107, Medicine 310A/B; plus 12 credit...”

Under the subheading Chemistry/Biochemistry Joint Honours Degree, amend clause “d)” to read as follows:

“d) Biochemistry 2100...3107, Medicine 310A/B, either Biochemistry 4210 or 4211...”

Under the subheading Cell Biology and Biochemistry Joint Honours, amend clause “c)” to read as follows:

“c) Either Medicine 310A/B, or Biology 3401...”

Under the same subheading, in the final paragraph “Seventy-eight credit hours...”, add the following sentence:

“Medicine 310A/B counts as Biochemistry for these seventy-eight credit hours.”

Page 233, 2004-2005 Calendar, under the heading Biochemistry Program, subheading Major in Biochemistry, in the second paragraph “Requires courses” amend clause “c)” to read as follows:

“c) Medicine 310A, 310B or 6 credit hours...”

Under the same subheading, add a new Note 3 as follows:

“3) For the purposes of a Biochemistry degree, Medicine 310A and 310B count as Biochemistry courses.”

Under the subheading Honours Degree in Biochemistry, amend clause “a)” to read as follows:

“a) Biochemistry 2100...3107, 4102, 499A, 499B, Medicine 310A, 310B.”

Under the same subheading, in the final paragraph “Those courses...”, add the following sentence:
Department of Biochemistry (cont’d)

“Medicine 310A/B counts as Biochemistry for these seventy-eight credit hours.”

Under the heading Nutrition Program, subheading Major in Nutrition, in the second paragraph “Required courses...”, amend clause “a)” to read as follows:

“a) Biochemistry 2000...3106, 3200...4301, Medicine 310A, 310B.”

Under the same subheading, add a new Note 3 as follows:

“3) For the purposes of a Biochemistry (Nutrition) degree, Medicine 310A and 310B count as Biochemistry courses.”

Page 234, 2004-2005 Calendar, under the heading, Honours Degree in Nutrition, subheading Minor in Nutrition, delete clause “a)” in its entirety and replace with the following:

“a) Biochemistry 2101, 3106, 3200, 3201, Medicine 310A, 310B.”

Page 235, 2004-2005 Calendar, under the heading Course List, delete the Co-requisites or prerequisites for course “3202” in its entirety and replace with the following:

“Co-requisites or prerequisites: Biochemistry 3201, and either Biochemistry 311B or Medicine 310B.”

Delete the prerequisites/Co-requisites for the course “4105” in its entirety and replace with the following:

“Co-Requisites or prerequisites: Biochemistry 2101, and either Biochemistry 311B or Medicine 310B.”

Delete the prerequisites for the course “4220” in its entirety and replace with the following:

“Prerequisites: Biochemistry 3106, and either Biochemistry 311B or Medicine 310B.”

Delete the prerequisites for the course “4300” in its entirety and replace with the following:

“Prerequisites: Biochemistry 3200, 3201, and either Biochemistry 311B or Medicine 310B.”

Delete the prerequisites for the course “4301” in its entirety and replace with the following:

“Prerequisites: Biochemistry 3200, 3201, and either Biochemistry 311B or Medicine 310B.”

Delete the existing note for the course “2101” in its entirety and replace with the following:
Department of Biochemistry (cont’d)

“NOTE: Credit may be obtained for only one of 2101, Pharmacy 2004, or Pharmacy 3110.”

Delete the prerequisite or co-requisite for the course “3200” in its entirety and replace with the following:

“Prerequisite or Co-requisite: Biochemistry 2101 or Pharmacy 2004 or Pharmacy 3110.”

Under the subheading Biochemistry/Psychology (Behavioural Neuroscience) Joint Honours, clause “b)” insert “3108” after 3107 and replace “12 credit hours” with “9 credit hours”.

Page 227, 2004-2005 Calendar, under the subheading Physics/Biochemistry Joint Honours, clause “e)” insert “3108” after 3107 and replace “12 credit hours” with “9 credit hours”.

Under the subheading Chemistry/Biochemistry Joint Honours Degree, clause “d)” insert “3108” after 3107 and replace “12 credit hours” with “9 credit hours”.

Under the subheading Cell Biology and Biochemistry Joint Honours, amend clause “a)” to read as follows:

“a) Biochemistry 2101, 3105, 3106, 3107, 3108, either 4210...”

Page 233, 2004-2005 Calendar, under the heading Biochemistry Program, subheading Major in Biochemistry, in the second paragraph “Requires courses” clause “a)” add “3108” after 3107 and delete clause “b)” in its entirety and replace with the following:

“b) At least 12 credit hours in courses from Biochemistry 3200, 4002, 4101, 4103, 4104, 4200, 4201.”

Under the subheading Honours Degree in Biochemistry, clause “a)” insert “3108” after 3107.

Under the subheading Minor in Biochemistry, clause “c)” insert “3108” after 3107.

Under the subheading Honours Degree in Biochemistry, delete clause “g)” in its entirety and replace with the following:

“g) Chemistry 2300, 2400, 2401, one of 3410 or 3411.”

Under the heading Nutrition Program, subheading Major in Nutrition, in the second paragraph “Required courses...”, delete clause “c)” in its entirety and replace with the following:

“c) Biology 1001 and 1002; and Physics 1020 and 1021 (or equivalent), for those students who did not complete them in first year.”
 IMPORTANT NOTE: There will be a competition for admission to the Dietetics program for the 2006.07 academic year. Applications must be received in the Biochemistry Office by April 30, 2006. Further admissions beyond the 2006.07 academic year depend on an academic program review.

Under the subheading Admission to Dietetics, in the fourth paragraph “Students applying...”, delete “1054” and replace with “1051”.

Under the subheading Major in Dietetics, amend clause “a)” to read as follows:

“a) Biochemistry 2000,...3106, 3200, 3201, 3202, Medicine 310A, 310B.”

Under the same subheading, in clause “g)” delete “(Computer Science 2650 is recommended)”.

Page 235, 2004-2005 Calendar, under the heading Course List, delete the prerequisite for course “4104” in its entirety and replace with the following:

“Prerequisite: Biochemistry 3107 or 3108.”

Delete the course “4201” in its entirety and replace with the following:

“4201. Membranes - Structure and Function. The structure of model and biological membranes, the molecular interactions between membrane components and the effects of these interactions on the biophysical and functional properties of membranes. Structure-function of specialized membranous systems, such as lipoprotein, lung surfactant, and lipid rafts. Membrane lipid composition in biochemical adaptation and function. Role of membrane proteins in intracellular trafficking, receptor function, enzymatic activity and membrane-related diseases. Prerequisite: Biochemistry 3105.”

Delete the course title and course description for the course “4300” and replace with:
Department of Biochemistry (cont’d)

“4300. Advanced Nutrition. A course in which current controversies and trends in human nutrition are presented and discussed using the scientific literature.”

Delete the course title and course description for the course “4502” and replace with:

“4502. Techniques in Nutrition Research. A seminar course in which faculty and students will discuss concepts and methods used in the study of nutrition. Students will be responsible for reading and critically assessing recent literature.”

71.10 Department of Earth Sciences

Page 247, 2004-2005 Calendar, under the heading Earth Sciences, subheading Minor in Earth Sciences, amend the last paragraph to read as follows:

“Several of...2502 and 2905 as co- or prerequisites.”

Under the subheading Major Programs in Earth Sciences, amend clause “a)” to read as follows:

“a) ...Physics 1050 and 1051 or Physics 1020* and 1021*.”

Amend the paragraph immediately following clause “a)” to read as follows:

“*Students who intend...Physics 1051 as well, since it is a prerequisite for higher level Physics courses. Students should review the Department of Physics calendar entry for these courses. Students will receive credit for only two first year Physics courses if they take Physics 1020, 1021 and 1051.”

Delete clause “b)” in its entirety and replace with the following:

“b) Earth Sciences 2030, 2031, 2401, 2502, 2702, 2905.”

Under the subheading Honours B.SC. Degree in Earth Sciences, amend clause “b)” to read as follows:

“b) At least 31 additional credit hours from Earth Sciences courses at 3000 and/or 4000 levels with a minimum of 12...”

Page 248, 2004-2005 Calendar, under the heading General B.Sc Degree in Earth Sciences, amend clause “a)” to read as follows:

“a) Twenty-one additional credit hours from Earth Sciences courses at 3000 and/or 4000 levels with a minimum of 9...”

Under General Notes for all Earth Sciences Programs and Courses, amend “Note 1” to read as follows:
NOTES: 1) Students wishing to pursue study...discuss course programs before registration in order to maintain proper sequencing.”

Page 249, 2004-2005 Calendar, under the heading Second Year, for the course “2030” delete:

“(Same as former Earth Sciences 203A.)”

Delete the course “2031” in its entirety and replace with the following:

“2031. Mineralogy and Petrography (W). Topics include: petrography and classification of igneous, metamorphic and sedimentary rocks; further study of the optical and chemical properties of rock-forming minerals; applications of relevant phase equilibria of minerals. Laboratory work comprises optical mineralogy and petrography of igneous, metamorphic and sedimentary rocks. Prerequisites: Earth Sciences 2030 and 2502.
NOTE: Credit cannot be obtained for both Earth Sciences 203A/B and one or both of Earth Sciences 2030 and 2031.”

Delete the course “2502” in its entirety and replace with the following:

“2502. Introduction to Geochemistry (F). This course provides an overview of both low- and high-temperature geochemistry. Topics include: origin and classification of the elements; chemical differentiation of the solar system and solid Earth; aqueous geochemistry and the stability of minerals; radiogenic and stable isotopes. Geochemical concepts are illustrated using data and processes drawn from Earth systems. The laboratory component emphasizes the development of numerical skills needed in geochemistry.”

Amend the course title and course description for the course “2702” to read as follows:

“2702. Sedimentology and Stratigraphy (F). A study of the origin and composition of sediments with a focus on depositional processes and resulting sedimentary structures. Study of environments of deposition and the stratigraphic framework of sedimentary successions. Laboratories involve local...”

Under the heading Third Year, delete the prerequisites in its entirety for the course “3170” and replace with the following:

“Prerequisites: Mathematics 2000 or Statistics 2510. Prerequisite or Co-requisite: Earth Sciences 2905.”

Delete the prerequisites in its entirety for the course “3172” and replace with the following:

“Prerequisites: Mathematics 2000 or Statistics 2510. Prerequisite or Co-requisite: Earth Sciences 2905.”

Amend the course description for the course “3179” to read as follows:
Department of Earth Sciences (cont’d)

“3179. Geophysical Analysis...Fourier analysis in geophysics. This course has a laboratory...”

Amend the course description for the course “3811” to read as follow:

“3811. Paleontology...mechanisms and effects of mega- and micro-evolution in the fossil record;...”

Page 250, 2004-2005 Calendar, under the heading Fourth Year, delete the course “4053” in its entirety and replace with the following:

“4053. Petrogenesis of Igneous Rocks. This course investigates the origin of topical and important groups of igneous rocks based on experimental petrology, phase equilibria and application of geochemical tools. It further investigates the classification of igneous rocks, including the study of volcaniclastic rocks and aspects of physical volcanology. The laboratory component of the course emphasizes practical aspects of igneous petrology including geochemical characterization and use of hand-sample and field criteria. 
Prerequisite: Earth Sciences 3054.”

Delete the course “4054” in its entirety and replace with the following:

“4054. Metamorphic Petrology. Relationships between metamorphism and tectonics, representation and interpretation of metamorphic mineral assemblages using compositional phase diagrams and petrogenetic grids; equilibrium thermodynamics and thermobarometry; determination of P-T-t paths. Laboratories include use of the electron microprobe to collect data for use in calculations of the conditions of formation of metamorphic assemblages, and various types of software applicable to metamorphic petrology.
Prerequisites: Earth Sciences 2401 and 3055.”

Amend the course description for the course “4105” to read as follows:

“4105. High Resolution ...Ground Probing Radar, methods in refraction seismic, high resolution magnetic surveys, microgravimetry surveys, electrical and electro-magnetic methods. This course...”

Delete the course “4171” in its entirety and replace with the following:

“4171. Exploration Geophysics III. Techniques involved in the acquisition, processing and interpretation of multichannel seismic reflection data. Introduction to elastic properties of rocks. Introduction to advanced processing and interpretation techniques as applied to qualitative and quantitative evaluation of hydrocarbon reservoir characteristics. This course has a laboratory component designed to provide hands-on experience with data processing and interpretation.
Prerequisites: Earth Sciences 3170 and 4179.”

Delete the prerequisites for the course “4211” in its entirety and replace with the following:
Department of Earth Sciences (cont’d)

“Prerequisites: Earth Sciences 3054 or 3055; and Earth Sciences 3210.”

Delete the prerequisites for the course “4400” in its entirety and replace with the following:

“Prerequisites: Earth Sciences 2401 and 3905 and a minimum of 6 credit hours in Earth Sciences at the 3000 level.”

Delete the course “4502” in its entirety and replace with the following:

“4502. Advanced Geochemistry. This course focuses primarily on the application of trace, radiogenic and stable isotope geochemistry to constrain the origin, mass balance and chemical fluxes within the Earth’s lithosphere and asthenosphere. The course permits students to complete assignments in aspects of geochemistry that reflect their career interests. Prerequisites: Earth Sciences 2031 and 2502 and a minimum of 6 credit hours in Earth Sciences at the 3000 level.”

Delete the course “4601” in its entirety and replace with the following:

“4601. Petroleum Origin and Occurrence. Study of the controls on the origin, migration, accumulation and production of petroleum resources, geological and geophysical methods of exploration, and the characterization of reservoir properties. Introduction to basic concepts of the geological interpretation of well logs. This course includes a laboratory component. Prerequisites: Earth Sciences 2702; and Earth Sciences 3170 or 3172.”

Amend the prerequisite for the course “4700” to read as follows:

“Prerequisite: Earth Sciences 2702 and a minimum of 6 credit hours...”

Delete the course “4800” in its entirety and replace with the following:

“4800. Advanced Paleontology. (Same as Biology 4800). A field, lecture, laboratory and seminar course dealing with selected topics in general and applied paleontology. Topics include measuring, evaluation and extinction, population paleontology, functional morphology, paleoecology, statistical methods for paleontological studies, and applications in petroleum, mining, and environmental studies. Prerequisites: Earth Sciences 381, and Statistics 2510 or Mathematics 2000.”

Delete the prerequisites for the course “4901” in its entirety and replace with the following:

“Prerequisites: Earth Sciences 2401 and 2702; and Earth Sciences 3054 or 3055.”

Delete the prerequisites for the course “4905” in its entirety and replace with the following:

“Prerequisites: Earth Sciences 2401, 2702, 3055 and 3905.”
Page 239, 2004-2005 Calendar, under the heading Course List, amend the prerequisites for the course “3811” to read as follows:

“Prerequisites: EITHER Earth Sciences 1002 and Biology 2120...”

Page 157, 2004-2005 Calendar, under the heading Economics, subheading Programs in Economics, immediately following “- Joint Programs (B.Sc. Only)”, insert:

“- Joint Program (Co-operative) (B.Sc. Only).”

Immediately following the subheading Joint Programs, delete the first paragraph and replace with the following:

“Programs from Joint Majors in Economics and Computer Science, Pure mathematics, Applied Mathematics or Statistics, and a Joint Major in Statistics and Economics (Co-operative) are found under the heading Joint Programs in the entry for the Faculty of Science.”

Page 231, 2004-2005 Calendar, immediately preceeding the section entitled “Pure Mathematics/Computer Science Joint Major (B.Sc. only)” insert the following new section:

“JOINT MAJOR IN STATISTICS AND ECONOMICS (CO-OPERATIVE) (B.Sc. only)

The Joint Major in Statistics and Economics Co-Operative Education Option is available to full-time Economics and Statistics majors (B.Sc. only). The program is available under the Economics Co-operative Education Option (ECEO)

The ECEO provides an excellent mutual opportunity for students and employers. Qualified students will obtain rewarding employment experience in fields related to Economics for several months of continuous duration. Students will learn valuable practical skills in an employment situation during their course of study. Furthermore, paid employment will help to defray the cost of their education. The timing of the Work Terms and the structure of the ECEO generally are such that employers stand to gain from the acquired employable skills of economists and statisticians in training. The objectives of the Work Term component of the ECEO are embodied in the Work Term descriptions below. The descriptions serve to guide the student and the employer toward achieving these objectives.

A) Admission Requirements

1. Admission is competitive and selective. Therefore, prospective students are encouraged to consider an alternate degree program in the event that they are not accepted into the Joint Co-operative program.
Department of Economics (cont’d)

2. Applicants should note that it is possible to enter Term 1 only in the Fall semester commencing in September of each academic year. Application forms are available in the Department of Economics and the Department of Mathematics and Statistics. The deadline for applications for admission to Term 1 is March 1.

3. The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Students with weak overall academic records are unlikely to be admitted.

4. To be eligible for admission to Term 1 an applicant must have successfully completed a minimum of thirty credit hours with an overall average of at least 65% as follows: All applicants must have completed Economics 2010 and 2020; at least six credit hours in English*; Mathematics 1000 and 1001; and 12 credit hours chosen from courses in the Faculties of Arts or Science.

*It is recommended that students complete English 1110. Critical Reading and Writing II (Context, Substance, Style) as one of these English courses.

5. Students may apply for admission to Advanced Standing.

6. Transfer students from other universities will be placed in that term of the program judged to be appropriate considering equivalent credits, as determined by the Departments.

B) Program of Study

1. Promotion from each of Terms 1 through 6 requires a passing grade in all specified required courses and an overall average of at least 60% in all courses including electives. A student who fails a required course or fails to maintain an overall average of 60% will not be promoted to the next term and will be required to withdraw from the program. The student in question may apply for readmission in a subsequent year after passing the specified required course(s) previously failed, or re-establishing the 60% average.

2. In addition to the 30 credit hours required for admission, students are required to complete the six academic terms in the ECEO program for a total of 120 credit hours. Students must complete three Work Terms which follow Academic Terms 2, 4, and 5.

3. Courses shall normally be taken in academic terms or “blocks” in the sequenced course load and order set out in Table 1 - Academic Course Program Joint Major (Co-operative) B.Sc. Unspecified credits may be used to fulfill elective requirements only.

4. UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) CLASSIFICATION OF STUDENTS notwithstanding, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.
Department of Economics (cont’d)

C) Work Term Placement

See Departmental Regulations in Economics for the Major in Economics (Co-operative), in the Faculty of Arts section of the Calendar.

D) Registration and Evaluation of Performance

See Departmental Regulations in Economics for the Major in Economics (Co-operative), in the Faculty of Arts section of the Calendar.

**TABLE I - Academic Course Program Joint Major in Statistics and Economics (Co-operative)**

<table>
<thead>
<tr>
<th>Term 1 (Fall)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 3000. Intermediate Micro Theory I</td>
</tr>
<tr>
<td>Economics 3550. Mathematical Economics I</td>
</tr>
<tr>
<td>Statistics 2510. Statistics for Physical Science Students</td>
</tr>
<tr>
<td>Mathematics 2000. Calculus III</td>
</tr>
<tr>
<td>Computer Science 1700. Introduction to Computer Science [See NOTE 1]</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Term 2 (Winter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2550. Economics Statistics and Data Analysis</td>
</tr>
<tr>
<td>Economics 3001. Intermediate Micro Theory II</td>
</tr>
<tr>
<td>Economics 3010. Intermediate Macro Theory I</td>
</tr>
<tr>
<td>Mathematics 2050. Linear Algebra I</td>
</tr>
<tr>
<td>Statistics 2560. Further Statistics for Science Students</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Work Term I (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 299W</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 3 (Fall)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 4550. Econometrics I</td>
</tr>
<tr>
<td>Mathematics 2051. Linear Algebra II</td>
</tr>
<tr>
<td>Statistics 3410. Mathematical Statistics I</td>
</tr>
<tr>
<td>Three further credit hours in Statistics courses</td>
</tr>
<tr>
<td>Three credit hours in elective courses [See NOTE 2]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 4 (Winter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 3011. Intermediate Macro Theory II</td>
</tr>
<tr>
<td>Economics 4551. Econometrics II</td>
</tr>
<tr>
<td>Statistics 3411. Mathematical Statistics II</td>
</tr>
<tr>
<td>Statistics 3540. Time Series I</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Work Term II (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 399W</td>
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</table>

<table>
<thead>
<tr>
<th>Term 5 (Fall)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistics 3520. Experimental Design I</td>
</tr>
<tr>
<td>Statistics 4590. Statistical Analysis of Data I</td>
</tr>
<tr>
<td>Six further credit hours in Economics courses</td>
</tr>
<tr>
<td>Three further credit hours in Statistics courses</td>
</tr>
</tbody>
</table>
NOTES: 1) Another 1000-level Computer Science course may be substituted for Computer Science 1700 with the Heads’ approvals.
2) Elective courses should be chosen with reference to the Regulations for the General Degree of Bachelor of Science, since courses specified for admission to and completion of the program only partially satisfy these regulations. In particular note that in addition to the 78 credit hours (26 courses) in Science subjects required, at least three credit hours in a Science subject other than Mathematics/Statistics, Economics and Computer Science must be completed.”

Page 251, 2004-2005 Calendar, under the heading Mathematics and Statistics, subheading Programs in Mathematics and Statistics, insert new clause “q)”, as follows:

“q) Joint Major in Statistics and Economics (Co-operative) (B.Sc. only).”

Reletter current clauses “q), r), s), t), u)” as “r), s), t), u), v)”.

Page 157, 2004-2005 Calendar, under the heading Economics, subheading Programs in Economics, immediately following “- Honours in Economics (B.A. or B.Sc.)” insert:

“- Honours in Economics (Co-operative), (B.A. or B.Sc.)”

Page 158, 2004-2005 Calendar, immediately preceding the table entitled “Table I - Academic Course Program B.A.”, insert the following new section:

“HONOURS IN ECONOMICS (CO-OPERATIVE), (B.A. OR B.Sc.)

A) Admission Requirements

See Major in Economics (Co-operative), (B.A. or B.Sc.) Economics Co-operative Education Option (ECEO) and the General Regulations for the B.A. and B.Sc. (Honours) Degrees.

B) Program of Study

1. See the General Regulations for the B.A. and B.Sc. (Honours) Degrees.

2. All candidates shall consult with the Head of the Department or delegate when choosing courses for an Honours program.

3. All candidates shall complete all non-Economics courses required of B.A. or B.Sc. Majors, and at least 60 credit hours in Economics, of which 2010,
Department of Economics (cont’d)

2020, 2550, 3000, 3001, 3010, 3011, 3550, 3551, 4120, 4550 and 4551 shall be chosen.

4. Twenty-one credit hours in electives in Economics shall be chosen in consultation with the Head of the Department or delegate, including at least six credit hours in courses at the 4000-level. In addition, all Economics Honours candidates are required to write an essay.

5. Promotion from each of Terms 1 through 6 requires a grade of 70% in all specified required courses and an overall average of at least 70% in all courses including electives. A student who fails a required course or fails to maintain an overall average of 70% will not be promoted to the next term and will be required to withdraw from the program. The student in question may be eligible from readmission in the subsequent year after passing the specified required course(s) previously failed, or re-establishing the 70% average. See also *UNIVERSITY REGULATIONS - REGULATIONS FOR THE HONOURS DEGREE*.

6. In addition to the 30 credit hours required for admission, students are required to complete the six academic terms in the ECEO program for a total of 120 credit hours. Students must complete three Work Terms, which follow Academic Terms 2, 4 and 5.

7. Courses shall normally be taken in academic terms or “blocks” in the sequenced course load and order set out in Table III - Academic Course Program B.A or in Table IV - Academic Course Program B.Sc. Unspecified credits may be used to fulfill elective requirements only.

8. *UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE)* notwithstanding, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.

C) Work Term Placement

See Major in Economics (Co-operative), (B.A. or B.Sc.) Economics Co-operative Education Option (ECEO).

D) Registration and Evaluation of Performance

See Major in Economics (Co-operative), (B.A. or B.Sc.) Economics Co-operative Education Option (ECEO).”

Page 159, 2004-2005 calendar, immediately following Table I and II, insert:
TABLE III - Academic Course Program B.A. (Honours) Co-operative

<table>
<thead>
<tr>
<th>Term 1 (Fall)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 3000. Intermediate Micro Theory I</td>
<td></td>
</tr>
<tr>
<td>Economics 3550. Mathematical Economics I</td>
<td></td>
</tr>
<tr>
<td>Statistics 2500. Statistics for Business and Arts Students I</td>
<td></td>
</tr>
<tr>
<td>Six credit hours in Minor, Core and elective courses [See NOTES 1 and 2]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 2 (Winter)</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Economics 3001. Intermediate Micro Theory II</td>
<td></td>
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<tr>
<td>Economics 3010. Intermediate Macro Theory I</td>
<td></td>
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<tr>
<td>Economics 2550. Economic Statistics and Data Analysis</td>
<td></td>
</tr>
<tr>
<td>Six credit hours in Minor, Core and elective courses [See NOTES 1 and 2]</td>
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<tr>
<th>Work Term I (Spring)</th>
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<tbody>
<tr>
<td>Economics 299W</td>
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<tr>
<th>Term 3 (Fall)</th>
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<tbody>
<tr>
<td>Economics 4550. Econometrics I</td>
<td></td>
</tr>
<tr>
<td>Six further credit hours in Economics courses [See NOTE 3]</td>
<td></td>
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<tr>
<td>Six credit hours in Minor, Core and elective courses [See NOTES 1 and 2]</td>
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<tr>
<th>Term 4 (Winter)</th>
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<tr>
<td>Economics 3011. Intermediate Macro Theory II</td>
<td></td>
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<tr>
<td>Economics 3551. Mathematical Economics II</td>
<td></td>
</tr>
<tr>
<td>Economics 4551. Econometrics II</td>
<td></td>
</tr>
<tr>
<td>Three credit hours in Minor, Core and elective courses [See NOTES 1 and 2]</td>
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<tr>
<th>Work Term II (Spring)</th>
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<tbody>
<tr>
<td>Economics 399W</td>
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<tr>
<th>Term 5 (Fall)</th>
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<tbody>
<tr>
<td>Nine further credit hours in Economics courses [See NOTE 3]</td>
<td></td>
</tr>
<tr>
<td>Six credit hours in Minor, Core and elective courses [See NOTES 1 and 2]</td>
<td></td>
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<tr>
<th>Work Term III (Winter)</th>
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<tbody>
<tr>
<td>Economics 499W</td>
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<tr>
<th>Term 6 (Spring)</th>
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<tbody>
<tr>
<td>Six further credit hours in Economics courses [See NOTE 3]</td>
<td></td>
</tr>
<tr>
<td>Nine credit hours in Minor, Core and elective courses [See NOTES 1 and 2]</td>
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</tbody>
</table>

NOTES: 1) Courses specified for admission to and completion of the ECEO only partially satisfy the Core Requirements for the Degree of Bachelor of Arts (Honours). Additional Core Requirements are six credit hours in the SAME second language, three credit hours in a Social Science course (other than Economics), twelve credit hours in Humanities courses, as well as six credit hours in research/writing courses (which may be met within the major and minor programs and/or in courses completed for the Social Science and Humanities requirements). These additional requirements should be completed before and following admission to Term 1 as part of the Minor program and elective components of the degree. Students are reminded that careful planning is necessary to ensure that all Core and minor requirements are satisfied.
2) A minor is required for a B.A. degree (Honours) in Economics.
3) Twenty-one credit hours in electives in Economics shall be chosen in consultation with the Head of Department or delegate, including at least 6 credit hours in courses at the 4000-level. In addition, all Economics Honours candidates are required to write an essay.

**TABLE IV - Academic Course Program B.Sc. (Honours) Co-operative**

<table>
<thead>
<tr>
<th>Term 1 (Fall)</th>
</tr>
</thead>
</table>
| Economics 3000. Intermediate Micro Theory I  
| Economics 3550. Mathematical Economics I  
| Statistics 2510. Statistics for Physical Science Students  
| Computer Science 1700. Introduction to Computer Science [See NOTE 1]  
| Three credit hours in elective courses [See NOTE 2] |

<table>
<thead>
<tr>
<th>Term 2 (Winter)</th>
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</table>
| Economics 3001. Intermediate Micro Theory II  
| Economics 3010. Intermediate Macro Theory I  
| Economics 2550. Economics Statistics and Data Analysis  
| Mathematics 2050. Linear Algebra  
| Three credit hours in elective courses [See NOTE 2] |

<table>
<thead>
<tr>
<th>Work Term I (Spring)</th>
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<tbody>
<tr>
<td>Economics 299W</td>
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<table>
<thead>
<tr>
<th>Term 3 (Fall)</th>
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</table>
| Economics 4550. Econometrics I  
| Six further credit hours in Economics courses [See NOTE 3]  
| Six credit hours in elective courses [See NOTE 2] |

<table>
<thead>
<tr>
<th>Term 4 (Winter)</th>
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</table>
| Economics 3011. Intermediate Macro Theory II  
| Economics 3551. Mathematical Economics II  
| Economics 4551. Econometrics II  
| Three further credit hours in Statistics courses [See NOTE 4] |

<table>
<thead>
<tr>
<th>Work Term II (Spring)</th>
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<tbody>
<tr>
<td>Economics 399W</td>
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<table>
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<tr>
<th>Term 5 (Fall)</th>
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</table>
| Six further credit hours in Computer Science courses [See NOTE 4]  
| Nine further credit hours in Economics courses [See NOTE 3] |

<table>
<thead>
<tr>
<th>Work Term III (Winter)</th>
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<tbody>
<tr>
<td>Economics 499W</td>
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</table>

<table>
<thead>
<tr>
<th>Term 6 (Spring)</th>
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</thead>
</table>
| Six further credit hours in Economics courses [See NOTE 3]  
| Nine credit hours in elective courses [See NOTE 2] |

**NOTES:**
1) Another 1000-level Computer Science course may be substituted for Computer Science 1700 with the approval of the Department Head.
Department of Economics (cont’d)

2) Elective courses should be chosen with reference to the Regulations for the Honours Degree of Bachelor of Science, since courses specified for admission to and completion of the ECEO only partially satisfy these regulations. In particular note that (i) at least 90 credit hours in Science subjects are required and that (ii) at least three credit hours in an additional Science subject other than Mathematics/Statistics, Economics and Computer Science must be included in these Science courses.

3) Twenty-one credit hours in electives in Economics shall be chosen in consultation with the Head of Department or delegate, including at least 6 credit hours in courses at the 4000-level. In addition, all Economics Honours candidates are required to write an essay.

4) the Statistics and Computer Science elective courses may both be taken in either Term 4 or 5.”

Page 157, 2004-2005 Calendar, under the heading Economics, subheading Major in Economics (B.A. or B.Sc.), under paragraph 9, amend clause “c)” to read as follows:

“c) Computer Science 1700....of Computer Science. With the approval of the Head of the Department or delegate, candidates may substitute another 1000-level Computer Science course for Computer Science 1700. Minors in Computer Science should enroll in Computer Science 1710.”

71.12 Department of Geography

Page 175, under the heading Course Descriptions, insert the following new courses:

“2226. Field Methods I. This course is designed to introduce students to the practice of geography in the field. Field techniques will focus on the observation, identification, and collection of primary data. This course provides a basis for further study in advanced geography courses.
Prerequisite: Geography 1050, or permission of the instructor.
NOTE: This course is a one credit hour course.

3226. Field Methods II. This course is designed to provide students with field experience at a more advanced level, building on Geography 2226. In this course, the students will experience the field research process from the initial observation of a site through research and analysis to completion of a written report.
Prerequisite: Geography 2226.
NOTE: This is a two credit hour course (24 hours).”

Delete the course “2220” in its entirety and replace with the following:

“3222. Research Design and Quantitative Methods in Geography. An introduction to principles of research design, and to the use of quantitative techniques. This course provides students with a basic understanding of data collection, entry, and analysis and presentation skills most commonly used by geographers.
Practical, computer-based exercises are an essential part of the course.”
Department of Geography (cont’d)

Three hours of lecture and three hours of laboratory per week. Prerequisite: Geography 1050, or the former 1011, or 1001 and at least nine credit hours from Geography 2001, 2102, 2195, 2302, 2425. 

NOTE: It is strongly recommended that this course be completed before registration in a 4000-level geography course. Credit may not be obtained for both Geography 3222 and the former Geography 2220, and Statistics 2500 or 2510."

Page 148, 2004-2005 Calendar, under the heading Diploma in Geographic Information Sciences, subheading Program of Study, amend the “NOTE” to read as follows:

“NOTE: The course Geography 3222, Mathematics...Computer Science 1710 are prerequisites to some of fourth year courses...”

Page 174, 2004-2005 Calendar, under the heading Geography, subheading Major in Geography (B.A. or B.Sc.), under paragraph 3), amend clause “b.” to read as follows:

“b. 2001, 2102, 2195, 2226, 2302...”

Delete clause “c.” in its entirety and replace with the following:

“c. 3222, 3226;”

Delete clause “d.” in its entirety and replace with the following:

“d. Twelve credit hours from 2200 and any other 3000-level courses;”

Page 175, 2004-2005 Calendar, under the heading General Prerequisites and Credit Restrictions, delete clauses “2” and “3” in their entirety and replace with the following:

“2. It is strongly recommended that all 2000-level core courses be completed before registration in 3000-level courses. All 2000-level core courses must normally be completed prior to registration in a 4000-level course.

3. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.”

Page 175, 2004-2005 Calendar, under the heading Course Descriptions, amend the prerequisites for the course “4261” to read as follows:

“Prerequisites: Geography 3260;...Computer Science 1710; (or equivalent...”

Amend the prerequisites for the course “3110” to read as follows:

“Prerequisites: Geography 2102;...Mathematics 1000, or permission of the Head.”

Amend the prerequisites for the course “3120” to read as follows:

“Prerequisites: Geography 2102; Mathematics 1000.”
Department of Geography (cont’d)

Amend the prerequisites for the course “3140” to read as follows:
“Prerequisites: Geography 2102; Mathematics 1000.”

Amend the prerequisites for the course “3150” to read as follows:
“Prerequisites: Geography 2102 or Earth Sciences 2905; Mathematics 1000.”

Amend the prerequisites for the course “3250” to read as follows:
“Prerequisites: Geography 2195; Mathematics 1000.”

Amend the prerequisites for the course “3260” to read as follows:
“Prerequisites: Geography 2195; Mathematics 1000.”

Amend the prerequisites for the course “3303” to read as follows:
“Prerequisite: Geography 2302.”

Amend the prerequisites for the course “3701” to read as follows:
“Prerequisite: Geography 2302.”

Page 228, 2004-2005 Calendar, under the heading Joint Honours in Computer Science and Geography, amend clause “2)” to read as follows:
“Forty-eight credit...2200, 2226, 2302,...3200, 3226, 3250, 3260, 4200...”

Delete clause “3) a)” in its entirety and replace with the following:
“a) Mathematics 2000, 2050, Geography 3222.”

Under the heading Joint Honours in Geography/Earth Sciences (B.Sc. ONLY), amend clause “b)” to read as follows:
“b) One of Geography 3222, Statistics...”

Amend clause “g)” to read as follows:
“g) Twenty-one...3250, 3425, and of which...”

Page 230, 2004-2005 Calendar, under the heading Joint Major in Computer Science and Geography, amend clause “3)” to read as follows:
“3) ...2050, Geography 3222.”

71.13 Department of Psychology

Page 262, 2004-2005 Calendar, under the heading Course Descriptions, subheading Non-restricted courses, for the course “3501”, delete the “NOTE” in its entirety.
ADMISSION TO MAJOR AND MINOR PROGRAMS

Admission to the Major and Minor programs in the Department of Psychology is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Psychology Department by June 1 for Fall semester registration and by October 1 for Winter semester. To be eligible for admission, students must have completed the 24 credit hours as listed below with an average of at least 65% in Psychology 1000/1001 and an overall average of at least 60% in Psychology, English, and Mathematics:

a) Psychology 1000, 1001  
b) English 1080 and one of 1101, 1102, 1103, or 1110, or equivalents.  
c) Mathematics 1000, or two of 1090, 1050, 1051 (or equivalents).  
d) Six credit hours of electives (9 if only Mathematics 1000 is completed).

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

ADMISSION TO HONOURS PROGRAMS

The Honours programs in the Department of Psychology are designed for students who would like to concentrate their studies or pursue graduate work. Students who wish to be admitted to these programs must submit an "Application for Admission to Honours Program Faculties of Arts or Science" to the Psychology Department by June 1 for Fall semester registration and by October 1 for Winter semester. To be eligible for admission, students must have completed Psychology 2910, 2911, 2520, and 2570 and obtained in these courses a grade of "B" or better, or an average of 75% or higher. Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance in the required courses. In special circumstances, students may be admitted to Honours Programs at times other than June and October. 

NOTE: Students are advised to consult the general regulations for Honours in the Faculty of Arts or the Faculty of Science, as appropriate.

REQUIREMENTS FOR A MAJOR IN PSYCHOLOGY

1) Students may Major in Psychology as part of either a B.A. or a B.Sc. program. All Majors are required to complete a minimum of 42 credit hours of Psychology as listed below:

a) Psychology 1000, 1001, 2520, 2570, 2910, 2911
Department of Psychology (cont’d)

b) Twelve credit hours of laboratory courses in Psychology chosen from the following: 3050 or 3051; 3160 or 3100; 2250; 2360; 3450; 2620 or 3650; 2850 or 3800; 3750.

c) Twelve credit hours of 4000-level courses in Psychology.

2) Psychology Majors following the B.Sc. program are also required to complete the following:

a) Mathematics 1000 (or equivalent).

b) Biology 1001 and 1002

c) Either Chemistry 1010 and 1011 (or 1050 and 1051); OR Physics 1020 (or 1050) and 1021 (or 1051)

d) Six credit hours of laboratory courses at the 2000 level or above in one of Biology, Chemistry, or Physics.

NOTE: Biology/Psychology 3750 and Biology/Psychology 4701 cannot be used to satisfy the requirement of 6 laboratory credit hours at the 2000 level or above in either Biology, Chemistry, or Physics.

3) Psychology Majors following the B.A. program are also required to complete Mathematics 1000 or two of 1090, 1050, 1051 (or equivalents), and are encouraged to complete at least 6 credit hours in Biology.

REQUIREMENTS FOR HONOURS IN PSYCHOLOGY

1) Honours students in Psychology are required to complete the 60 credit hours of Psychology as listed below:

a) Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3900, 4910, 499A/B

b) Eighteen credit hours of laboratory courses chosen from the alternatives listed in Clause 1(b) of the requirements for a Major in Psychology

c) Twelve credit hours of 4000-level courses in Psychology

2) Honours students must also complete the requirements listed in either Clause 2 or Clause 3, as applicable, of the requirements for a Major in Psychology.

3) Honours students will be required to submit in their graduating year, an undergraduate thesis (Psychology 499A/B) which demonstrates their competence in Experimental Psychology.

REQUIREMENTS FOR A MAJOR IN BEHAVIOURAL NEUROSCIENCE (B.Sc. ONLY)

A program is offered in the Psychology Department to provide an education in Behavioural Neuroscience. Students wishing to enroll in the program are
Department of Psychology (cont’d)

advised to consult with the Head of the Department at the earliest opportunity. Students who intend to pursue graduate studies should take courses leading to the Honours degree.

The program for a Major in Behavioural Neuroscience shall include:

1) a) Psychology 1000, 1001, 2520, 2570, 2910, 2911, 2850, 3800
   b) One of either Psychology 4850 or 4851
   c) Six credit hours of laboratory courses chosen from the following: 3050 or 3051, 3160 or 3100, 2250, 2360, 3450, 2620 or 3650, 3750
   d) Three further credit hours of Psychology courses at the 4000-level.

2) a) Mathematics 1000 (or equivalent) and 1001
   b) Chemistry 1010 and 1011 (or 1050 and 1051), and 2440 (or 2400/2401)
   c) Physics 1020 (or 1050) and 1021 (or 1051).
   d) Biology 1001, 1002
   e) English 1080 and one of 1101, 1102, 1103, or 1110, or equivalents

3) Eighteen credit hours from the following courses chosen from at least three different sciences:
   - Biology: 2060, 2210, 2250, 2900, 3050, 3160, 3202, 3401, 3500, 3530, 3540, 4200, 4241, 4245, 4402
   - Chemistry: 2210, 2300 or any 3000 or 4000 level course
   - Computer Science: Any 2000, 3000, or 4000 level course except service courses
   - Mathematics: 2000, 2001, 2050, 2051 or any 3000 or 4000 level pure or applied mathematics course
   - Physics: Any 2000, 3000, or 4000 level course except 2000, 2050, 2151, 3150, 3151

NOTE: The courses listed under Clause 3 may have prerequisites. It is the student’s responsibility to ensure that all prerequisites have been met, or that waivers have been obtained, before registering for these courses.

REQUIREMENTS FOR HONOURS IN BEHAVIOURAL NEUROSCIENCE (B.Sc. ONLY)

1) Honours students in Behavioural Neuroscience are required to complete the following Psychology Courses: 1000, 1001, 2520, 2570, 2910, 2911, 3900, 2850, 3800, 4910, 4999A/B, 4850 or 4851; two further laboratory course in Psychology chosen from the following: 3050 or 3051, 3100 or 3160, 2250, 2360, 3450, 2620 or 3650, 3750.

2) Honours students in Behavioural Neuroscience must also complete the requirements listed in Clauses 2 and 3 of the requirements for a Major in Behavioural Neuroscience.

3) In accordance with Clause 6.i. of the Regulations for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, OR an average of 75% or higher in all the required courses listed in
Department of Psychology (cont’d)

Clauses 1 and 3 of the requirements for a major in Behavioural Neuroscience and Clause 1 of the requirements for honours in Behavioural Neuroscience, except those at the 1000 level.

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY

Students who Minor in Psychology are required to complete a minimum of 24 credit hours of Psychology as follows:

a) Psychology 1000, 1001, 2520, 2570
b) Twelve other credit hours of Psychology.”

Page 226, 2004-2005 Calendar, under the heading Joint Programs, delete the section entitled “Biochemistry (Nutrition)/Psychology (Behavioural Neuroscience) Joint Honours” in its entirety and replace with the following:

“BIOCHEMISTRY (NUTRITION)/PSYCHOLOGY (BEHAVIOURAL NEUROSCIENCE) JOINT HONOURS

The following courses (or equivalents) are required:

a) Chemistry 1010 and 1011 (or 1050, 1051), Biology 1001 and 1002, Mathematics 1000, Physics 1020 or 1050, and 1021 (or 1051), English 1080 and 1110.

b) Biochemistry 2100, 2101, 3106, 311A/B, 3200, 3201, 3202, 4002, 4300, 4301, 4502.

c) Psychology 1000, 1001, 2520, 2570, 2910, 2911, 2850, 3800, 3900, one of 4850 or 4851; two further laboratory course in Psychology, chosen from 2250, 2360, 2620 or 3650, 3050 or 3051, 3100 or 3160, 3450, 3750.

d) Either Biochemistry 499A/B or Psychology 499A/B.

e) Chemistry 2400, 2401 or Chemistry 2440.

f) Other courses to complete at least the prescribed minimum of 120 credit hours in courses for the Joint Honours Degree.

NOTES: 1) In accordance with Clause 6.i. of the Regulations for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, OR an average of 75% or higher in all the required courses listed in Clauses (b), (c) and (d) above, except those at the 1000 level.

2) Students in first year intending to follow this program should note the regulations as outlined for admission to Major programs in Psychology and that the deadline for submission of a completed application form to the Psychology Department is June 1 for the Fall semester and October 1 for the Winter semester.”

Delete the section entitled “Biochemistry/Psychology (Behavioural Neuroscience) Joint Honours” in its entirety and replace with the following:
Department of Psychology (cont’d)

“BIOCHEMISTRY/PSYCHOLOGY (BEHAVIOURAL NEUROSCIENCE) JOINT HONOURS

The following courses (or equivalents) are required to complete the 120 credit hours in courses required for the degree:

a) Chemistry 1050 and 1051 (or equivalents), Biology 1001 and 1002, Mathematics 1000 and 1001, Physics 1050 or 1020, and 1051, English 1080 and 1110.

b) Biochemistry 2100, 2101, 3105, 3106, 3107, 311A/B, either 4210 or 4211, 12 credit hours chosen from Biochemistry 4002, 4101, 4102, 4103, 4104, 4105, 4200, 4201, 4220.
NOTE: Only one of 4105 and 4220 may be chosen.

c) Psychology 1000, 1001, 2520, 2570, 2910, 2911, 2850, 3800, 3900, 4910; one of 4850 or 4851; one further laboratory course in Psychology.

d) Either Biochemistry 499A/B or Psychology 499A/B.

e) Chemistry 2300, 2400, 2401.

NOTES: 1) In accordance with Clause 6.i. of the Regulations for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, OR an average of 75% or higher in all the required courses listed in Clauses (b), (c) and (d) above, except those at the 1000 level.
2) Students in first year intending to follow this program should note the regulations for admission to Major programs in Psychology and that the deadline for submission of a completed application form to the Psychology Department is June 1 for the Fall semester and October 1 for the Winter semester.”

Page 227, 2004-2005 Calendar, delete the section entitled “Biology/Psychology Joint Honours” in its entirety and replace with the following:

“BIOLOGY/PSYCHOLOGY JOINT HONOURS

The following forty courses (or equivalent) are required:

1. Biology 1001, 1002, 2060, 2250, 2600, 2900; one of 3401, 3402, 4245, 4404; four Biology electives not including Biology 499A or 499B.

2. Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3900, 4910, 2250; 2850 or 3800; one further laboratory course in Psychology, chosen from the following: 2360, 2620, 3050, 3051, 3100, 3160, 3450, 3650; one further 4000 level Psychology course.

3. Biology or Psychology 3750, 4701, 499A/B.
4. English 1080 and 1110; Mathematics 1000; Chemistry 1010 and 1011 (or
1050 and 1051), and 2440; Physics 1020 (or 1050) and 1021 (or 1051);
Biochemistry 2101 and 3106.

5. Other courses, if necessary, to complete at least 120 credit hours of
courses.”

Page 228, 2004-2005 Calendar, delete the section entitled
“Biology/Psychology (Behavioural Neuroscience) Joint Honours” in its
entirety and replace with the following:

“BIOLOGY/PSYCHOLOGY (BEHAVIOURAL NEUROSCIENCE)
JOINT HONOURS

The following forty courses (or equivalents) are required:

1. Biology 1001, 1002, 2060, 2250, 2600, 2900; one of 3401, 3402, 4245,
4404; five Biology electives not including Biology 499A or 499B.

2. Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3900, 2850, 3800, 4910;
4850 or 4851; one further laboratory course in Psychology.

3. Biology or Psychology 499A/B.


5. English 1080 and 1110; Mathematics 1000 and 1001; Physics 1020 or
(1050) and 1021 or (1051); Chemistry 1010 and 1011 (or 1050 and 1051),
and 2440 (or 2400 and 2401);

6. Other courses, if necessary, to complete at least 120 credit hours of
courses.

NOTE: In accordance with Clause 6.i. of the Regulations for the Honours
Degree of Bachelor of Science, Honours candidates must obtain a grade of
"B" or better, OR average of 75% or higher in all the required courses listed
in Clauses 1, 2, 3, and 4 above, except those at the 1000 level.”

Page 263, 2004-2005 Calendar, under the heading Majors Courses, insert the
following new courses:

“2520. Mind and Brain. Cognitive and neuroscience perspectives on two
different themes (visual perception from sensation through imagery, attention
and working memory) will be used to convey the logic and methods used in
modern-day psychological research, the development and use of theory to
guide further research, the utility of multiple research perspectives for
developing a full understanding of psychological issues, and basic concepts
in cognition and neuroscience.
Prerequisites: Psychology 1000 and 1001.
Department of Psychology (cont’d)

2570. Understanding Individual Differences. Using current conceptualizations of personality and ability as a focus, the course will review issues related to the measurement of individual differences, including test characteristics and ethics. Research from a variety of perspectives will be used to illustrate the contributions of different areas of psychology to our understanding of individual differences.
Prerequisites: Psychology 1000, 1001."

Delete the course “2900” in its entirety and replace with the following:

“2910. Research Methods in Psychology I. An introduction to the design and application of psychological research with particular concentration on understanding and applying scientific method, creating and testing hypotheses, constructing reliable and valid experiments, managing and analyzing data sets, using statistical software, and scientific writing. Specific topics include descriptive statistics including measures of central tendency, variability and relative standing, inferential statistics such as t tests for one and two sample designs, correlation and regression, and non-parametric statistics.
Prerequisites: Psychology 1000 and 1001; Mathematics 1000 or two of 1090, 1050 and 1051 (or equivalents)
Laboratory period weekly.
NOTE: Credit may not be obtained for both Psychology 2910 and any of the following: Statistics 2500, 2510, 2550, Psychology 2900, 2925.”

Delete the course “2901” in its entirety and replace with the following:

“2911. Research Methods in Psychology II. Research methods in psychology with a focus on more complex research designs and statistical approaches, within the realm of experimentation and beyond the laboratory. Specific topics include controlling participant variables, using between and repeated measures designs within the context of Analysis of Variance (ANOVA). Particular ANOVA approaches include one-way and factorial designs, within subject design, and two-way mixed designs.
Prerequisite: Psychology 2910
Laboratory period weekly.
NOTE: Credit may not be obtained for both Psychology 2911 and any of the following: Statistics 2501, 2560, Psychology 2901, 2950.”

Page 258, 2004-2005 Calendar, under the heading Course List, add the following “Note” to the course “1050”:

“NOTE: for more details regarding P1050, see Note 4.”

Page 256, 2004-2005 Calendar, under the heading Physics and Physical Oceanography, subheading Programs in Physics, amend “Note 4” to read as follows:
“4) Physics 1050 is open...taking Physics 1050. However, under certain circumstances, students enrolled in M1090, will be allowed to register for P1050 with the permission of the Department of Physics and Physical Oceanography. Students who have completed M1090 and P1050, however, are required to complete M1000 before registering for P1051.”

Page 257, 2004-2005 Calendar, under the heading Major in Physics, delete clause “b)” in its entirety and replace with the following:

“b) Chemistry 1050 and 1051 (or C1010, C1011 and C1031) (or equivalents)”

Under the heading Honours in Physics, delete clause “b)” in its entirety and replace with the following:

“b) Chemistry 1050 and 1051 (or C1010, C1011 and C1031) (or equivalents)”

Under the heading Major in Environmental Physics, delete clause “b)” in its entirety and replace with the following:

“b) Chemistry 1050 and 1051 (or C1010, C1011 and C1031) (or equivalents)”

Page 258, 2004-2005 Calendar, under the heading Honours in Environmental Physics, delete clause “b)” in its entirety and replace with the following:

“b) Chemistry 1050 and 1051 (or C1010, C1011 and C1031)”

Page 257, 2004-2005 Calendar, under the heading Honours in Physics, in the table under Year I, Semester I, delete “Chemistry 1000” and replace with “Chemistry 1050”.

In the same table under Year I, Semester II, delete “Chemistry 1001” and replace with “Chemistry 1051”

71.15 Department of Computer Science

Page 228, 2004-2005 Calendar, under the heading Joint Honours in Computer Science and Geography, amend clause “1)a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4751 and 4770.”

Amend clause “3)a)” to read as follows:

“a) Mathematics 2000, 2050, PM2320 and...”

Under the heading Joint Honours in Computer Science and Physics, amend clause “2)a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3731, 3754 and 4770.”
Department of Computer Science (cont’d)

Amend clause “6)b)” to read as follows:

“b) Mathematics 2000, 2050, PM2320 and...”

Under the heading Statistics/Computer Science Joint Honours (B.Sc. only), amend clause “a)” to read as follows:

“a) M 2000, M 2050, M 2051, PM 2320, PM 3340...”

Amend clause “c)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4734, and 4770.”

Page 229, 2004-2005 Calendar, under the heading Pure Mathematics/Computer Science Joint Honours (B.Sc. only), delete the first clause “a)” in its entirety and replace with the following:

“a) 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, and 4770.”

Amend the second clause “a)” to read as follows:

“...AM 2130, PM 2320, AM/PM 3201...”

Delete the “Note” in its entirety and replace with the following:

“NOTE: There is an Undergraduate Advisor in each Department. These advisors should be consulted on all academic matters.”

Page 230, 2004-2005 Calendar, under the heading Joint Major in Computer Science and Economics (B.SC. ONLY), amend clause “1)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3731, 3753, 3754, and 4770.”

Amend clause “3)” to read as follows:

“...M 2050, PM 2320, and ST 2510.”

Under the heading Joint Major in Computer Science and Geography, amend clause “1)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4751, and 4770.”

Amend clause “3)” to read as follows:

“...2050, PM 2320, and Statistics...”

Under the heading Applied Mathematics/Computer Science Joint Major (B.Sc. only), amend clause “a)” to read as follows:
Department of Computer Science (cont’d)

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4770, plus 6...”

Amend clause “b)” to read as follows:

“...AM 2130, PM 2320, AM 3132...”

Under the heading Statistics/Computer Science Joint Major (B.Sc. only), amend clause “a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4734, and 4770.”

Amend clause “c)” to read as follows:

“...M 2051, PM 2320, PM 3340...”

Page 231, 2004-2005 Calendar, under the heading Joint Major in Computer Science and Physics, amend clause “2)” to read as follows:

“...Joint Major: 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3731, 3754, and 4770.”

Amend clause “4)b)” to read as follows:

“...2050, PM 2320, Statistics...”

Under the heading Pure Mathematics/Computer Science Joint Major (B.Sc. only), amend clause “a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, and 4770.”

Amend clause “c)” to read as follows:

“...M 2051, PM 2320, AM 2130...”

Under the heading Joint Degrees of Bachelor of Science (Computer Science) and Bachelor of Commerce (Co-operative), in Table 1, under “Term One (Fall), rename “Computer Science 2710” as follows:

“Computer Science 2710. Object-oriented Programming II”

Delete “Computer Science 2740” in its entirety.

Insert “Computer Science 2742. Logic for Computer Science” immediately following “Computer Science 2710.”

In Table 1, under “Term Two (Winter)”, delete “Computer Science 2711” in its entirety.

Department of Computer Science (cont’d)

In Table 1, under “Term Three (Fall)” delete “Computer Science 2741” and “Computer Science 3724” in their entirety.


In Table 1, under “Term Five (Winter)” renumber “3711” as “3719”.

Delete “Computer Science 3740” in its entirety.

Insert “Computer Science 3724. Computer Organization” immediately following “Computer Science 3719”.

In Table 1, under “Term Six (Fall)” delete “Computer Science 3714” and “1 Computer Science elective” in their entirety.


In Table 1, under “Term Seven (Winter)” delete “Computer Science 4718” and “Computer Science 4721” in their entirety.

Insert “Computer Science 3754. Introduction to Information and Intelligent Systems” and “Computer Science 4770. Team Project” immediately preceding “1 Computer Science elective”.

Page 243, under the heading Major in Computer Science, amend clause “1)a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, and 4770.”

Amend clause “2)” to read as follows:

“...Statistics 2510, and PM 2320.”

Amend the “Note” to read as follows:

“...Business 2000, Mathematics 2001...”

Under the heading Honours in Computer Science, amend clause “2)a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4770, and 4780.”

Amend clause “3)” to read as follows:

“...Statistics 2510, and PM 2320.”
Department of Computer Science (cont’d)

Amend the “Note” to read as follows:

“...Business 2000, Mathematics 2001...”

Page 244, 2004-2005 Calendar, under the heading Honours in Computer Science (Software Engineering) (B.Sc. ONLY), amend clause “2)a)” to read as follows:

“...2711, 2742, 2760, 3715, 3716, 3719, 3718, 3724, 3725, 3754, 4716, 4719, 4759, 4770, and 4780.”

Amend clause “3)” to read as follows:

“...Statistics 2510, and PM 2320.”

Under the heading Computer Industry Internship Option (CIIO):, subheading Application requirement:, amend clause “a)” to read as follows:

“...CS2711, CS2742, CS2760, CS3715, CS3719 and CS3724.”

Under the heading Minor in Computer Science, amend clause “1)” to read as follows:

“...2711, 2742, 2760.”

Under the heading Course Numbering Scheme, insert:

“7 - Project Course”

Page 245, 2004-2005 Calendar, under the heading Faculty Advisors, delete the paragraph “Each student...” in its entirety and replace with the following:

“The Department has an Undergraduate Advisor for Computer Science majors to consult with on academic matters.”

Under the heading Course List, subheading First Year Courses, amend the course title for “1710” to read as follows:

“Object-oriented Programming I (F) & (W).”

Amend the course description to read as follows:

“...control structures and the use of objects,...”

Under the heading Second Year Courses, delete the course “2710” in its entirety and replace with the following:

“2710. Object-Oriented Programming II (F) & (W). Continuing from Object-Oriented Programming I, this course studies object-oriented and event-driven programming. Additional topics include: recursion, basic analysis of algorithms, fundamental data structures such as simple linked
structures and stacks, and fundamental computing algorithms such as binary search and quadratic time sorting. A brief overview of programming languages, virtual machines and language translations is also provided.

Lectures: Three hours per week.
Laboratory: Three hours per week.
Prerequisite: Computer Science 1710.”

Delete the course “2711” in its entirety and replace with the following:

“2711. Introduction to Algorithms and Data Structures (F) & (W). This course includes the study of standard ways of organizing and manipulating data in computer storage. Fundamental concepts in the design and analysis of algorithms are also discussed.

Lectures: Three hours per week.
Laboratory: Three hours per week.
Prerequisite: Computer Science 2710.

NOTE: It is recommended that students complete Computer Science 2742 prior to registering for Computer Science 2711.”

Delete the course “2740” in its entirety.

Insert the following new course:

“2742. Logic for Computer Science (F) & (W). This course is an introduction to propositional and predicate logic with applications. The use of the system of boolean logic in reasoning and circuit design, as well as basic proof techniques and the resolution principle, for both propositional and predicate logic, will be covered. Concepts involving sets will be used to illustrate different types of proof techniques. The probable intractability of boolean logic and Goedel’s incompleteness theorem will be presented.

Prerequisite: Computer Science 1710.”

Delete the course “2741” in its entirety.

Insert the following new course:

“2760. Encountering the Computer: Society and the Individual (F) & (W). This course examines social, ethical, legal and cultural issues surrounding the use of computers in modern society. These broader social issues are followed by an examination of the use of social and individual psychology in user interface design. Students will be expected to demonstrate an understanding of these issues both directly (through verbal and written discourse) and practically, as applied to the creation of actual software artifacts.

Prerequisites: Two 1000-level English courses, or equivalent.
Co-requisite: Computer Science 2710.”

Under the heading Third Year Courses, immediately following the course description for the course “3711” add the following:

“To be offered for the last time in Fall 2005.”
Department of Computer Science (cont’d)

NOTE: Credit cannot be obtained for both Computer Science 3711 and Computer Science 3719."

Delete the prerequisites for the course “3714” in its entirety and replace with the following:

“Prerequisites: Computer Science 3719 and 3724.”

Insert the following new courses:

“3715. Network Computing with WEB Applications (F) & (W). The course studies how distributed applications (e.g., client/server Web applications) are constructed using the Internet. Topics covered include: the socket interface for network communication, client/server applications, browser scripting using Javascript, content generation for web applications (e.g., jsp, php), html/css documents, and the use of cryptography to handle security.
Prerequisite: Computer Science 2711.

3716. Software Methodology (F) & (W). Software is developed by gathering the requirements of the software program, analyzing the requirements to create a development model, and creating the software and documents for the software product. This course studies techniques for all three software development activities.
Prerequisite: Computer Science 2711.”

Delete the prerequisites/co-requisites for the course “3717" in its entirety and replace with the following:

“Prerequisites/Co-requisites: Computer Science 2711 and 2742.”

Delete the prerequisites for the course “3718” in its entirety and replace with the following:

“Prerequisites: Computer Science 2711 and Pure Mathematics 2320.”

Insert the following new course:

“3719. Algorithms and Complexity (F) & (W). This course includes (1) advanced algorithm design strategies based on complex data structures and non-standard (parallel / distributed / randomized / approximate) models of computation and (2) analysis techniques for proving polynomial-time intractability and general uncomputability. The latter involves an introduction to abstract models of computation via the formal languages, grammars, and automata of the Chomsky Hierarchy.
Prerequisites: Computer Science 2711 and Pure Mathematics 2320.
To be offered for the first time in Winter 2006.
NOTE: Credit cannot be obtained for both Computer Science 3711 and Computer Science 3719.”

Delete the course “3724” in its entirety and replace with the following:
Department of Computer Science (cont’d)

“3724. Computer Organization (F) & (W). All computers are machines that operate by repeatedly fetching and executing instructions from memory. Computer organization can be studied at the digital logic implementation level, the instruction set architecture level, and the translation of programming languages to the underlying machine instruction level. This course studies computer organization at these levels. Prerequisites: Computer Science 2711 and Computer Science 2742. Co-requisite: Pure Mathematics 2320.”

Delete the course “3725” in its entirety and replace with the following:

“3725. Computer Architecture and Operating Systems (F) & (W). System design and the architectural implementations of these designs are covered in this course. The objective is to develop the basic concepts of processor design, memory management, operating systems, and I/O devices and their interactions. Prerequisite: Computer Science 3724.”

Delete the prerequisites for the course “3740” in its entirety and replace with the following:

“Prerequisites: Computer Science 2711 and Pure Mathematics 2320.”

Insert the following new course:

“3754. Introduction to Information and Intelligent Systems (F) & (W). This course introduces students to application areas that are away from usual number-based and text-based processing. Students will learn the basic concepts and become aware of the historical developments and social and ethical issues related to the application areas such as intelligent systems and information management. This exposure will help students to become knowledgeable about managing large volumes of data and dealing with problems that are well defined but whose algorithmic solutions are not feasible or problems that are fuzzily defined. Prerequisites: Computer Science 2711 and Computer Science 2742.”

Page 246, 2004-2005 Calendar, under the heading Fourth Year Courses, delete the prerequisite for the course “4716” in its entirety and replace with the following:

“Prerequisite: Computer Science 3716.”

Amend the prerequisites for the course “4718” to read as follows:

“Prerequisites: Computer Science 3719. Students...”

Delete the prerequisite for the course “4719” in its entirety and replace with the following:

“Prerequisites: Computer Science 3716 and 3719.”
Delete the prerequisites for the course “4742” in its entirety and replace with the following:

“Prerequisite: Computer Science 3719.”

Delete the prerequisites for the course “4748” in its entirety and replace with the following:

“Prerequisite: Computer Science 3719.”

Delete the prerequisites for the course “4751” in its entirety and replace with the following:

“Prerequisites: Computer Science 3719 and Mathematics 2050.”

Delete the prerequisite for the course “4753” in its entirety and replace with the following:

“Prerequisites: Computer Science 3719 and 3754.”

Delete the prerequisite for the course “4754” in its entirety and replace with the following:

“Prerequisites: Computer Science 3725 and 3754.”

Delete the prerequisite for the course “4756” in its entirety and replace with the following:

“Prerequisite: Computer Science 3719.”

Delete the prerequisites for the course “4761” in its entirety and replace with the following:

“Prerequisites: Computer Science 2760 and 3719 and Statistics 2510.”

Delete the prerequisite for the course “4762” in its entirety and replace with the following:

“Prerequisite: Computer Science 3719.”

Insert the following new course:

“4770. Team Project (F) & (W). The objective of this course is to develop a working prototype of a software system as a team effort. A group of students will work on a project for a team, experiencing the advantages and difficulties of team projects. Prerequisite: Computer Science 3716.”
71.16 School of Nursing

Page 334, 2004-2005 Calendar, under the heading Four Year Bachelor of Nursing (Collaborative) Program, subheading Mission Statement, amend the first paragraph as follows:

“... challenges of health care today and into the future. The program ...”

Under the heading General Regulations for the Bachelor of Nursing (Collaborative) Program, renumber clauses “8), 9) and 10)”(as approved at a meeting held on October 12, 2004) as “10), 11) and 12)”.

Immediately following clause “7)”, insert the following new clauses:

“8) Students who voluntarily withdraw from the program prior to the conclusion of the first semester of the first year and who wish to return to the BN (Collaborative) program must re-apply in competition as a new applicant.

9) Students who voluntarily withdraw from the program at the conclusion of the first semester of the program, or later, and who wish to return to the BN (Collaborative) program, must appeal for readmission. Such letters will be sent to the Chair, Committee on Undergraduate Studies. If readmitted, clause 10 will apply.”

Page 336, 2004-2005 Calendar, under the heading Regulations for the Bachelor of Nursing (Collaborative) Program Fast-Track Option, subheading Academic Standards and Promotions, renumber clauses “6) and 7)” (as approved at a meeting held on October 12, 2004) to “9) and 10)”.

Immediately following clause “5)”, insert the following new clauses:

“6) Students who voluntarily withdraw from the fast-track option prior to the conclusion of the first semester of the first year and who wish to return to the BN (Collaborative) program Fast-Track Option must re-apply in competition as a new applicant.

7) Students who voluntarily withdraw from the fast-track option at the conclusion of the first semester of the program, or later, and who wish to return to the BN (Collaborative) program Fast-Track option, must appeal for readmission. Such letters will be sent to the Chair, Committee on Undergraduate Studies. If readmitted, clause 8) will apply.

8) Students who are readmitted to the program following a period of absence, either as a result of a leave of absence or a withdrawal from the program, may be required to do remedial work upon the recommendation of the Undergraduate Studies Committee. Remedial work may include the repetition of classroom and/or clinical courses.”

Page 339, 2004-2005 Calendar, under the heading Course List, subheading 3 Credit Hour Courses, amend the co-requisite for course “N1011.” as follows:

“...N1511 or admission to the Fast-Track Option.”
School of Nursing (cont’d)

Delete the prerequisite for course “N2003.” in its entirety and replace with the following:

“Prerequisites: Biochemistry 1430 or the former Biochemistry 2430. Prerequisite or Co-requisite: N1012 or the former N2102 or N2301.”

Amend the co-requisites for course “N4110.” as follows:

“... N4512, N4513 or admission to the Fast-Track Option.”

Amend the prerequisites for course “N4512.” as follows:

“... or N4310 or admission to the Fast-Track Option.”

Amend the description for course “N2230.” as follows:

“...the student to apply them in client ...”

Delete the course description for course “N3023.” in its entirety and replace with the following:

“This course focuses on the counselling role of the nurse, building on the communication skills inherent in a helping relationship. Gerard Egan’s model, an integral part of the course, is a problem-management and opportunity development approach to helping. Key counselling skills are discussed and students have the opportunity to practice these skills to further enhance their ability to effectively counsel clients in a variety of nursing contexts.”

Amend the description for course “N5700.” as follows:

“... Process, methods and issues are considered ...”

Page 338, 2004-2005 Calendar, under the heading Program of Studies: Bachelor of Nursing (Post-RN), immediately following the subheading Admission Requirements, insert the following table:
### School of Nursing (cont’d)

<table>
<thead>
<tr>
<th>Category of Admission</th>
<th>Documents Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Post RN applicant; Not registered for courses in the past two consecutive semesters (Fall, Winter, Spring)</td>
<td>• General application for admission to Memorial University of Newfoundland.</td>
</tr>
<tr>
<td></td>
<td>• Proof of current practicing RN license</td>
</tr>
<tr>
<td></td>
<td>• 1 letter of reference from current supervisor of nursing position</td>
</tr>
<tr>
<td></td>
<td>• Completed health assessment</td>
</tr>
<tr>
<td></td>
<td>• Completed record of current immunization as outlined on the appropriate School of Nursing form</td>
</tr>
<tr>
<td></td>
<td>• Tentative schedule of program plan</td>
</tr>
<tr>
<td>New Post RN applicant; Registered for courses in the past two consecutive semesters (Fall, Winter, Spring)</td>
<td>• Supplementary School of Nursing (Post RN) application</td>
</tr>
<tr>
<td></td>
<td>• Proof of current practicing RN license</td>
</tr>
<tr>
<td></td>
<td>• 1 letter of reference from current supervisor of nursing position</td>
</tr>
<tr>
<td></td>
<td>• Completed health assessment</td>
</tr>
<tr>
<td></td>
<td>• Completed record of current immunization as outlined on the appropriate School of Nursing form</td>
</tr>
<tr>
<td></td>
<td>• Tentative schedule of program plan</td>
</tr>
<tr>
<td>Previous Post RN admit who has taken a Post RN course in past 6 semesters; Not registered for courses in the past two consecutive semesters (Fall, Winter, Spring)</td>
<td>• General application for admission to Memorial University of Newfoundland</td>
</tr>
<tr>
<td>Previous Post RN admit who has not taken a Post RN course in the past 6 semesters; Not registered for courses in the past two consecutive semesters (Fall, Winter, Spring)</td>
<td>• General application for admission to Memorial University of Newfoundland</td>
</tr>
<tr>
<td></td>
<td>• Proof of current practicing RN license</td>
</tr>
<tr>
<td></td>
<td>• 1 letter of reference from current supervisor of nursing position</td>
</tr>
<tr>
<td></td>
<td>• Completed health assessment</td>
</tr>
<tr>
<td></td>
<td>• Completed record of current immunization as outlined on the appropriate School of Nursing form</td>
</tr>
<tr>
<td></td>
<td>• Tentative schedule of program plan</td>
</tr>
</tbody>
</table>

Immediately following the newly inserted table, delete clause “1)” in its entirety and replace with the following:

“1) All applications and supporting documents must be submitted to the Office of the Registrar.”

Delete clause “4)” in its entirety.

Renumber the current clause “5)” as “4”).
School of Nursing (cont’d)

Insert the following new clauses:

“5) Students seeking clinical placements outside of Canada must satisfy the clinical agency’s immunization requirements, submitting documentation of its requirements to that agency at least one month in advance of the start of the semester in which the course will be taken.

6) Students seeking clinical placements within Canada must satisfy the School of Nursing immunization requirements outlined on the School of Nursing Immunization Requirements form. This documentation must be submitted to the Office of the Registrar in advance of the start of registration for the semester in which the course will be taken.”

Under the subheading Credit Hours (21), amend clause “b)” as follows:

“... Statistics 2500 (or equivalent), ...”

Delete the section entitled Immunization and Licensing Requirements, in its entirety.

71.17 Regulations Governing Admission/Readmission to the University (Undergraduate) - Section 2, ENGLISH LANGUAGE PROFICIENCY REQUIREMENTS


Renumber current clauses “2.9” and “2.10” as “2.8” and “2.9”

71.18 Faculty of Medicine

Page 324, 2004-2005 Calendar, under the heading Faculty of Medicine, delete the section entitled Outline of Teaching Program in its entirety and replace with the following:

“DESCRIPTION OF MEDICAL TRAINING PROGRAMS

The Faculty of Medicine offers a four-year undergraduate medical program, comprising a minimum of 186 credit hours, leading to the degree of Doctor of Medicine (MD).

The first two years of medical studies is called Pre-Clerkship. Basic medical science courses are taught primarily in the first year of medical studies. Upon completion of these courses, the Integrated Study of Disease courses follow. Students undertake instruction in Community Health and Clinical Skills concurrently. By the end of Pre-Clerkship, students are expected to be able to take a patient’s medical history, perform a thorough physical examination and to derive a logical diagnosis. The Clerkship Preparation Course is completed prior to commencing the Clerkship.
Faculty of Medicine (cont’d)

The last two years of medical studies is called Clerkship. During this time, students who are clinical clerks take courses that will allow them to alternate through the major disciplines in hospital and community settings. Clinical clerks participate as members of the health care team gaining the knowledge and experience necessary to assume the responsibilities associated with patient care.

Upon successful completion of medical studies, the students are qualified to write Part I of the licensing examinations set by the Medical Council of Canada (MCC). After the award of the MD degree and following successful completion of one year of postgraduate training, they are qualified to write Part II of the MCC licensing examinations.

CONTINUING MEDICAL EDUCATION

The Faculty of Medicine’s Office of Professional Development delivers accredited continuing medical education (CME) programs and plays a major role in meeting the professional development needs of health care professionals throughout Newfoundland and Labrador and across Canada. CME is offered through a variety of formats, including teleconferencing, video-conferencing, online and onsite. Faculty development programs are designed specifically to assist faculty members in their own unique educational requirements. Educational assessments and retraining experiences are available to physicians, international medical graduates and health care practitioners who meet the criteria. The Office of Professional Development is committed to assisting students, faculty members, and physicians in meeting their educational requirements.

Under the subheading Postgraduate Medical Training Programs, subheading Registration, amend the first paragraph as follows:

“Postgraduate trainees are registered each year as full-time students...”

Delete the heading Licensure in the Province of Newfoundland, in its entirety and replace with the following:

“LICENSURE IN NEWFOUNDLAND AND LABRADOR”

Delete the section entitled Research in its entirety and replace with the following:

“GRADUATE STUDIES

Interdisciplinary interaction and research among the divisions of Basic Medical Sciences, Community Health and Clinical Sciences is promoted.

Programs have been designed to attract students interested in a Graduate Diploma or a Master’s, PhD or MD-PhD degree. Areas of strength include Applied Health Services Research, Cancer, Cardiovascular and Renal Sciences, Clinical Epidemiology, Community Health, Human Genetics, Immunology, and Neurosciences. Details of the graduate programs are provided in the School of Graduate Studies section of this Calendar.”
Faculty of Medicine (cont’d)

Page 326, 2004-2005 Calendar, under the heading Regulations for the Degree of Doctor of Medicine, delete the sections beginning with “Evaluation and Promotion” up to and including the section “Courses in the Third and Fourth Year of Medical Studies” in their entirety and replace it with the following:

“EVALUATION

1) Subject to the approval of Senate, the overall policy of evaluation and the planning of the programs of studies leading to the MD degree are the responsibility of the Committee on Undergraduate Studies for the Faculty of Medicine, which is a standing committee of the Council of the Faculty of Medicine. Responsibility for scheduling and coordinating courses rests with an appointed Chair of the Pre-Clerkship or Clerkship Committee in collaboration with the chairpersons of courses/subjects taught in a year or section of the curriculum.

2) Each student is expected to complete the work of the class as described in the current regulations of the Faculty of Medicine for each year of the program and to pass the prescribed academic and professional examination. In this context, the professional evaluation will cover, not only the skills expected of a student, but personal conduct and relationships with peers, patients, hospital personnel, faculty members and staff.

3) For Pre-Clerkship courses/subjects and Medicine 7280, evaluation of an individual student's performance is conducted by the course/subject chair or instructor(s). The overall results of the course/subject evaluations are expressed on a four point internal scale as outstanding, pass, borderline or fail. For Clerkship, overall evaluations of discipline rotations/selectives and electives are the responsibility of the respective discipline or electives coordinator. There is an internal five point scale of outstanding, above average, average, below average and fail.

   a) The Chair of the Pre-Clerkship or Clerkship and/or the Chair of the appropriate course/subject committee is responsible for ensuring that each student is informed of the results of each evaluation. The chair of the course/subject committee will notify the student and Pre-Clerkship or Clerkship Chair, in writing, of any concerns that have arisen about performance.

   b) It is the responsibility of the student to consult immediately with the Chair of the Pre-Clerkship or Clerkship Committee and/or the Chairperson of the course/subject committee regarding any course/subject in which concerns about performance have been expressed. Within one week of receiving notification of the grade for a course/subject, a student may submit a written request to the Chair of the Pre-Clerkship or Clerkship Committee for reconsideration of the grade awarded or for a reread of an exam/paper.

   c) The student is responsible for notifying the Chair of the Pre-Clerkship or Clerkship Committee immediately of any new circumstances or of any pre-existing circumstances that have not previously been reported which could affect his or her individual performance in the work of the class.
Faculty of Medicine (cont’d)

PROMOTION

1) Student Promotions Committees are standing committees of Faculty Council and are composed of the Manager of Student Affairs and faculty members of the Pre-Clerkship or Clerkship Committee. It is the responsibility of a Student Promotions Committee to monitor each student's progress for each year of the undergraduate curriculum on the basis of the grades submitted by course chairpersons.

a) A Student Promotions Committee will review the results of all course/subject evaluations in any year. On the basis of this review, this Committee will decide which students should be promoted to the next year of studies. In reaching its decisions the Student Promotions Committee will take into account professional, as well as academic factors, and any special circumstances which may warrant consideration.

b) A Student Promotions Committee may require students to pass additional examinations or to do remedial work before being considered for promotion. Students with a "Fail" grade in any course cannot be promoted; such students may be required to repeat the entire course or any appropriate section and must pass an appropriate evaluation before a positive promotions decision is made. The amount and quality of makeup required of a student is at the discretion of the Student Promotions Committee, but it cannot be undertaken while any other course, including electives or selectives, is in progress, nor if the student's full participation in subsequent courses is in any way jeopardized.

2) A Student Promotions Committee may decide not to promote students who have shown consistent borderline performances if it is anticipated that performance in the subsequent year would be adversely affected by the unsatisfactory progress.

3) A student who is deemed by a Student Promotions Committee to be unsuitable for promotion may be required to repeat all or part of the studies in any year, or may be required to withdraw either conditionally or unconditionally.

a) If a student is required to repeat a year on the grounds of unsatisfactory performance, his or her performance in the repeated year must be at a level at which no remedial work or supplementary evaluation is required. If this standard is not met, a Student Promotions Committee may require the student to withdraw unconditionally.

b) Normally the option to repeat a year can only be offered to a student once during his/her MD program. This restriction may be waived if it has been demonstrated that the student's performance has been adversely affected by other factors acceptable to a Student Promotions Committee and duly authenticated.

c) If a Student Promotions Committee requires a student to withdraw conditionally, the Chair of the Pre-Clerkship or Clerkship Committee will report to the Dean of the Faculty of Medicine the nature of the conditions to
Faculty of Medicine (cont’d)

be met and the time period specified for meeting the conditions. The Dean may then recommend to the Registrar that the student be required to withdraw. Any student who has been required to withdraw conditionally may be readmitted once the conditions have been met. If the conditions are not met within the specified time limit, the student will be required to withdraw unconditionally.

d) If a Student Promotions Committee requires a student to withdraw unconditionally, the Chair of the Pre-Clerkship or Clerkship Committee will report the decision and the basis upon which it was reached to the Dean of the Faculty of Medicine. The Dean may then recommend to the Registrar that the student be required to withdraw from the program. Any student who is required to withdraw unconditionally and who wishes to re-enter the Faculty must apply to the Admissions Committee in competition with all other applicants by the appropriate deadline date.

4) A student has the right to make a formal appeal against a decision of a Student Promotions Committee. However, this appeal cannot be made on the basis of the grades awarded in individual courses, as the student will normally have had the opportunity of contesting grades immediately after notification. A formal appeal by a student against the decision of this Committee must be made on grounds other than the grades awarded, e.g., default of procedure. This appeal should be made in writing, clearly stating the basis for the appeal and should be directed in the first instance to the Registrar of the University. The Registrar, in consultation with the Dean, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.

5) In addition to the above clauses, the Faculty of Medicine reserves the right to require a student to withdraw from the program at any time when acceptable cause is demonstrated. In such cases, the Dean, on behalf of the Faculty, shall recommend such withdrawal to the Registrar who will then take appropriate action. Any such action is subject to the right of appeal by the student. An appeal should be made in writing clearly stating the basis for the appeal and should be directed in the first instance to the Registrar of the University. The Registrar, in consultation with the Dean, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.

6) Any student who enters the first year of the medical program but withdraws within the first seven weeks may be permitted re-entry only by re-application to the Admissions Committee in competition with all other applicants by the appropriate deadline date.

7a) Upon completion of an academic year, a student in good academic standing may elect to withdraw temporarily from studies, e.g., to pursue graduate studies after completion of the second year.

b) Any student may be permitted to withdraw in accordance with UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) Withdrawing From the University. In all cases, the intent to withdraw voluntarily should be
Faculty of Medicine (cont’d)

discussed with the Chair of the Pre-Clerkship Committee or the Clerkship Committee, as appropriate. The student must make a written request for voluntary withdrawal to the Dean who will then consult with the appropriate Committee Chair. In the event that a student wishes to return to medical school, the Dean should ensure that the sufficient revision and preparatory work are undertaken before the student is permitted to resume medical studies.

c) Students permitted to withdraw are advised of the date upon which they are required to resume medical studies. In the absence of good cause, any such student who does not resume studies on the specified date will be deemed to have left the program.

CURRICULAR REQUIREMENTS (MD)

Students entering the MD program will be governed by curricular requirements in effect at the time of their admission. In the event of readmission, students will be governed by curricular requirements in effect at the time of their readmission.

The Clerkship Student Promotions Committee recommends to Faculty Council those students to be awarded the MD degree.

MEDICINE COURSES

The courses in Pre-Clerkship form a continuum. Some courses are composed of several individual subjects.

Clerkship provides clinical experience in the affiliated teaching hospitals and community sites of Memorial University of Newfoundland. The students become members of the patient care team and have graded and supervised responsibility.

COURSES IN THE FIRST AND SECOND YEAR OF MEDICAL STUDIES

5600 Basic Science of Medicine I is an integrated course with several subjects including anatomy, biochemistry, genetics, immunology, microbiology, pathology and physiology. This course introduces students to the structure and function of the human body and provides the foundation of the basic science of medicine. A wide range of teaching methods are used including lectures, small group sessions, and laboratory sessions/demonstrations.

CH: 14

5610 Clinical Skills I introduces students to the main elements of the medical interview and techniques of counselling. Students are then expected to acquire skill in examining normal individuals and eliciting symptoms and signs in patients and presenting the findings in a logical and comprehensive manner. Emphasis is placed on developing a sympathetic and understanding approach to the patient. The course also provides an integrated approach to
clinical symptoms and signs as manifestations of disordered function or structure. Ethical issues playing a significant role in assessment and management of clinical problems are considered.

AR: attendance is required
CH: 9

5640 Community Health I introduces several aspects of community health including health promotion, disease prevention, biostatistics, epidemiology, social and organizational factors in health, environmental and occupational health, community nutrition and behavioural sciences. Lectures and small group sessions are complemented with practical experience obtained through group research projects and field teaching in the community in both a rural and urban context. Aspects of medical ethics relative to community health are integrated throughout the course. Emphasis is placed on understanding the determinants of health and illness and the context in which they occur. The principles of research are introduced and students may initiate research opportunities that are carried through subsequent courses in the curriculum.

CH: 9

5650 Integrated Study of Disease I involves studying diseases of the major organs/body systems and includes integration with the pathophysiological basis of disease, pathology and pharmacology. The course also incorporates the relevant aspects of preventive medicine, clinical genetics, clinical epidemiology and occupational medicine.

CH: 10

5660 Family Medicine Pre-Clerkship Elective is offered to medical students interested in enhancing their patient interviewing and clinical examination skills. Each student will be paired with an experienced family physician in the community (rural and urban opportunities) for two to four weeks during the summer months at the end of the first and/or second year. Students gain practical experience of working at the primary care level in a variety of settings that could include office-based practice, home visits, emergency departments, labour and delivery and both long-term care facilities and in-hospital ward experiences. (This varies depending on the family physician’s practice profiles.) Students applying for this course must be currently registered as a first or second year medical student in a Canadian medical school.

AR: attendance is required
CH: 0

6600 Basic Science of Medicine II is a continuation of Basic Science of Medicine I.
CH: 8

6610 Clinical Skills II is a continuation of Clinical Skills I.

AR: attendance is required
CH: 9

6640 Community Health II is a continuation of Community Health I.
CH: 9
Faculty of Medicine (cont’d)

6650 Integrated Study of Disease II is a continuation of Integrated Study of Disease I.
CH: 30

6660 Family Medicine Pre-Clerkship Elective is the same as Medicine 5660.
AR: attendance is required
CH: 0

7000 Clerkship Preparation Course
AR: attendance is required
CH: 2

AR = Attendance requirement; CH = Credit hours are 3 unless otherwise noted.

COURSES IN THE THIRD AND FOURTH YEAR OF MEDICAL STUDIES

The Third Year is approximately 14 months in duration; it begins in September and continues until November of the following year. It is composed of the core courses 7200-7250 and two (8 credit hours) elective courses. The Fourth Year begins immediately upon completion of the Third Year and continues until May of the following year. It includes one (4 credit hours) elective course, three (12 credit hours) selective courses, and Medicine 7280.

7200 Internal Medicine
AR: attendance is required
CH: 15

7210 Surgery
AR: attendance is required
CH: 10

7220 Psychiatry
AR: attendance is required
CH: 10

7230 Pediatrics
AR: attendance is required
CH: 10

7240 Rural Family Practice
AR: attendance is required
CH: 5

7250 Obstetrics/Gynecology
AR: attendance is required
CH: 10
Faculty of Medicine (cont’d)

7260, 7261 & 7263 Electives
AR: attendance is required
CH: 12 (4 each)

7270-7272 Selectives
AR: attendance is required
CH: 12 (4 each)

7280 Integrated Basic, Community Health and Clinical Sciences
CH: 2

AR = Attendance requirement; CH = Credit hours are 3 unless otherwise noted.

71.19 Faculty of Engineering

Page 369, 2004-2005 Calendar, under the heading Computer Engineering Curriculum, under the table Technical Electives, in the column Winter, Term 8, remove the following course:

“8878. Image Communications”

Page 370, under the heading Computer Engineering Curriculum - Offshore Oil and Gas Option (OOGE), under the table Technical Electives, remove the following course:

“8878. Image Communications”

Page 371, under the heading Electrical Engineering Curriculum, under the table Technical Electives, remove the following courses:

“8846. Power Electronic Systems
8813. Propagation and Diffraction”

Page 372, under the heading Electrical Engineering Curriculum - Offshore Oil and Gas Option (OOGE), under the table Technical Electives, remove the following courses:

“8846. Power Electronic Systems
8813. Propagation and Diffraction”

Page 382, 2004-2005 Calendar, under the heading Course List, subheading Term 3 Courses, delete the course description for “3821. Circuit Analysis” in its entirety and replace with the following:

“Review of elementary circuits, wye-delta transformation, bridge circuits; transient analysis of first- and second -order circuits; sinusoidal steady state analysis, phasor diagrams, maximum power transfer, frequency selective circuits (filters); Laplace transforms in circuit analysis (transients, steady state, transfer function). Relevant laboratory exercises.”
Faculty of Engineering (cont’d)

Under the subheading **Term 5 Courses**, delete the course description for “5821. Control Systems I” in its entirety and replace with the following:

“Introduction to control systems, negative feedback, on/off and PID controllers; mathematical modeling of electromechanical systems; transfer functions and state space models, block diagram reduction, introduction to signal flow graphs; controller realization using op-amps; steady state and transient response analysis; Rough’s stability criterion; basic control actions and response of control systems; root locus analysis and design; analysis and design of compensators in time domain; frequency response analysis; bode diagram; gain and phase margins; compensator design in frequency domain; Nyquist stability criterion; introduction to PID controller tuning methods; analysis and design of control systems using Matlab. Relevant laboratory exercises.”

Delete the course description for “5895. Software Design” in its entirety and replace with the following:

“The development process: requirement analysis, design, iterative development, design documentation; an introduction to the Unified Modeling Language: use cases, class diagrams and sequence diagrams; an introduction to software design patterns: creational patterns, structural patterns and behavioural patterns; object-oriented, modular decomposition. The course includes a major design project.”

Under the subheading **Term 6 Courses**, delete the course description for “6876. Voice and Data Communications” in its entirety and replace with the following:

“Introduction to communication networks such as the telephone network and the Internet; flow control and error control; circuit switching; packet switching; local area networks; internetworking; communication architectures and protocols.”

Delete the course description for “6871. Communication Principles” in its entirety and replace with the following:

“Review of signal representation and analysis; distortionless signal transmission, baseband vs. passband transmission; amplitude modulation including double sideband suppressed carrier (DSB-SC) AM, large carrier AM, quadrature AM (QAM), single sideband (SSB) AM, vestigial sideband (VSB) AM, and the super-heterodyne receiver; frequency/phase modulation (FM/PM) including bandwidth, generation and demodulation, and pre-emphasis and de-emphasis; sampling theorem, pulse amplitude modulation (PAM), pulse code modulation (PCM), delta modulation.”

Delete the course description for “6891. Formal Programming Methods” in its entirety and replace with the following:

“Fundamentals of formal program specification, derivation, and verification; data refinement; rudiments of formal language theory including regular expressions, CFGs, and top-down and bottom-up parsing; system specification methods such as statecharts and SCR.”
Faculty of Engineering (cont’d)

Under the heading Term 8 Courses, delete the course description for “8821. Digital Signal Processing”, in its entirety and replace with the following:

“Review of discrete-time systems and signals and sampling theory; transform analysis of discrete-time LTI systems; implementation of digital filter systems; design of IIR and FIR digital filters; discrete Fourier transform and the Fourier analysis of signals; applications of digital signal processing.”

Delete the course description for “8826. Filter Synthesis” in its entirety and replace with the following:

“Introduction to analog filters; descriptive terminology, transfer functions and frequency response of filters; design of first order passive and active filters; design and analysis of biquad circuit, Salley key circuit, multiple feedback circuit and state variable filter; RC-CR transformation; inductance simulation circuit; cascade design principle; design of filters with maximally flat magnitude response; design of filters with equal ripple magnitude response; design of Bessel-Thomson filters; analysis and design of switched capacitor filters; use of Matlab for design of analog filters. Relevant laboratory exercises.”

Delete the course description for “8863. LSI Design” in its entirety and replace with the following:

“Introduction to ASICs and ASIC design methodology; basic concepts of digital logic design tools and ASIC technology libraries; partitioning for logic synthesis and VHDL coding; constraining designs, synthesizing, simulation and optimization; design for testability; layout and post-layout optimization and SDF generation; static timing analysis. Relevant laboratory exercises.”

Page 378, 2004-2005 Calendar, under the heading Complementary Studies Courses, in the second paragraph, delete the last sentence.

Immediately following the second paragraph, delete clauses “1. through 6.” in their entirety and replace with the following:

“Students who have previously met a complementary studies requirement before the semester in which it is scheduled and students who wish to defer a complementary studies requirement to a later semester, may request an exemption or deferral by applying to the Associate Dean (Undergraduate). Students who have been granted an exemption or a deferral will not be required to take a replacement course in that term and their promotion from that academic term will be based on the remaining technical courses.

The Complementary Studies component is the same for all programs and consists of a minimum of 21 credit hours as follows:

1. **Term A or B** (3 credit hours): English 1080 (or equivalent) or English 1020
Faculty of Engineering (cont’d)

2. **Terms A and B** (6 credit hours): Two complementary studies electives chosen from lists provided by the Office of the Associate Dean (Undergraduate). These courses are drawn from the humanities, social sciences, arts and management and one of these courses is intended to provide experience with writing.

3. **Term 1** (3 credit hours): Complementary studies elective chosen from a list provided by the Office of the Associate Dean (Undergraduate). This course must be second year or higher and it is intended to provide experience with the central issues, methodologies and thought processes of the humanities and social sciences.

4. **Term 4** (3 credit hours): Engineering Economics - Engineering 4102

5. **Term 5** (3 credit hours): The Engineering Profession - Engineering 5101

6. **Term 6** (3 credit hours): One of:

   - Assessment of Technology - Engineering 6101,
   - Technology and Society - Sociology 2120,
   - Technology - Philosophy 2801
   - Women and Technological Change - Women’s Studies 4107.

7. For graduation, students must pass each of the seven complementary studies courses described in sections 1 - 6 and they must obtain at least a 60% average across these courses.”

71.20 Marine Institute

Page 79, 2004-2005 Calendar, under the heading Degree Program Regulations, subheading 4.1 Bachelor of Maritime Studies, under Table 1 - Bachelor of Maritime Studies - Course Requirements for all Students, under the Column “Electives”, insert the following course:

“MSTM 4060. Advanced Technical Communications”

Under the heading 4.2.1 Bachelor of Technology - Engineering and Applied Science Technology Option, under “Table 3”, under the column “Group A Electives”, insert the following course:

“MSTM 4060. Advanced Technical Communications”

Under the heading 4.2.2 Bachelor of Technology - Health Sciences Technology Option, under “Table 4”, under column “Group A Electives”, insert the following course:

“MSTM 4060. Advanced Technical Communications”

Page 81, 2004-2005 Calendar, under the heading Course Descriptions, insert the following course:
Marine Institute (cont’d)

“4060 Advanced Technical Communications will enhance the technical communication skills of students. The course content examines technical writing fundamentals; information gathering, analysis, and documentation; proposal preparation; technical document applications; technical report preparation; graphics preparation; and technical presentations. The course will provide students with the knowledge and skills necessary to develop proposals, reports, and presentations for technical projects.”

71.21 School of Human Kinetics and Recreation

Page 298, 2004-2005 Calendar, delete “Table 1 Bachelor of Kinesiology (Co-operative)” in its entirety and replace with the following:
Table 1
Bachelor of Kinesiology (Co-operative)

<table>
<thead>
<tr>
<th>Term</th>
<th>Required Courses</th>
<th>Elective Courses</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>Academic</td>
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<tr>
<td>Term 1</td>
<td>Chemistry 1010 or Chemistry 1050</td>
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<tr>
<td></td>
<td>English 1080 or equivalent</td>
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<td>HKR 2000</td>
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<td>Mathematics 1000</td>
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<td>Psychology 1000</td>
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<td>Winter</td>
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<tr>
<td>Academic</td>
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<tr>
<td>Term 2</td>
<td>Chemistry 1011 or Chemistry 1051</td>
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<tr>
<td></td>
<td>English 1110 or equivalent</td>
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<td></td>
<td>HKR 2300</td>
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<td>Psychology 1001</td>
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<td></td>
<td>Physics 1020 or Physics 1050</td>
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<td>Spring</td>
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<td>Academic</td>
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<tr>
<td>Term 3</td>
<td>Biology 2040</td>
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<tr>
<td></td>
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<tr>
<td>Term 4</td>
<td>HKR 2320</td>
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<td></td>
<td>HKR 2600 or Biochemistry 2600</td>
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<td>HKR 3320</td>
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<td>Work Term 1</td>
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<td>Term 6</td>
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<tr>
<td>Term 7</td>
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<td>HKR 4702</td>
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School of Human Kinetics and Recreation (cont’d)

Page 302, 2004-2005 Calendar, delete “Table 5 Bachelor of Kinesiology” in its entirety and replace with the following:

**Table 5**

**Bachelor of Kinesiology**

<table>
<thead>
<tr>
<th>Term</th>
<th>Required Courses</th>
<th>Elective Courses</th>
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<tr>
<td>Fall</td>
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<tr>
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</tr>
<tr>
<td></td>
<td>HKR 4703</td>
<td></td>
</tr>
</tbody>
</table>
School of Human Kinetics and Recreation (cont’d)

Page 296, 2004-2005 Calendar, under the subheading 3.3.2 Memorial University of Newfoundland Applicants, delete bullet one in its entirety and replace with the following:

“To be eligible for consideration for admission, students who are attending or have previously attended this University must have a cumulative average of 60% or an average of 65% on their last 30 credit hours.”

Page 309, 2004-2005 Calendar, delete the prerequisite for “3310” in its entirety and replace with the following:

“PR: HKR 2310 and 2320; or Biochemistry 311A and 311B; or Nursing 1002 and 1012; or Pharmacy 3201 and 3202.”

Page 308, 2004-2005 Calendar, under the heading 9 Course Descriptions, insert the following new courses:

“2420 Doping in Sport provides an introduction to the technical and sporting issues surrounding the use of prohibited substances or methods (doping) in sport. The course focuses on the history of doping and anti-doping activities, the moral/ethical issues surrounding the use of performance enhancing drugs and methods, the technical and legal issues surrounding doping control, issues related to therapeutic use exceptions, and the application of strict liability standards to special athletic populations.

2585 Foundations of Therapeutic Recreation. The course is designed to examine a variety of aspects of therapeutic recreation from both a practical and theoretical perspective. Topics will include the history, philosophies, and theories underlying therapeutic recreation, therapeutic recreation models, essential skills for the therapeutic recreationist and ethical considerations for therapeutic recreation. Diverse groups (e.g. adults, youth, disadvantaged and disabled) and settings (e.g. community, schools, institutions, and workplace) suitable for therapeutic recreation will be discussed. NOTE: Students cannot receive credit for the former HKR 3585/RECR 3585 and HKR 2585.

3485 Therapeutic Recreation Service Delivery. Issues related to the delivery of therapeutic recreation services will be the focus of this course. In particular, the following topics will be addressed: documentation in therapeutic recreation; client assessment issues; therapeutic recreation program planning (identifying client needs, selecting appropriate interventions, task and activity analysis, planning change-oriented programs, writing behavioural objectives, etc.); program and client evaluation; written plans of operation. PR: HKR 2585 and HKR 2505.

4485 Leisure Education in Therapeutic Recreation Settings. This course is designed to provide students with the knowledge and skills required to facilitate leisure education interventions designed to bring about desired changes in the leisure behaviour of individuals. The course will address the following three broad areas: a) concepts and models of leisure education; b)
content related to specific skills required for leisure involvement (leisure awareness, social skills development, friendship development, stress management, assertiveness, decision making, etc.) and c) instructional and interactional techniques used in leisure education.

PR: HKR 2585 and HKR 2505.

4685 Professional Issues in Therapeutic Recreation. This course is designed to facilitate an in-depth exploration and analysis of philosophical issues and interdisciplinary theories and to discuss how they relate to therapeutic recreation practice and research. The course will be conducted as a seminar and students will be responsible for reading course materials and leading discussions on various topics. The ultimate goal of the course is to prepare the student to enter the profession confident in his/her ability to provide exemplary TR services.

PR: HKR 2585 and HKR 2505.”

Delete the course “HKR 3585” in its entirety.

Replace all references to “HKR 3585” in the School’s calendar entry with “HKR 2585”.

72. REPORT OF THE ACADEMIC COUNCIL OF THE SCHOOL OF GRADUATE STUDIES

72.1 School of Music

Page 466, 2004-2005 Calendar, under the heading Regulations Governing the Degree of Master of Music, delete the first paragraph “The degree of Master of Music...” in its entirety and replace with the following:

“The degree of Master of Music (M.Mus.) is offered by full-time study, normally commencing in the Fall semester. Three areas of specialization are offered: Conducting, Performance and Performance/pedagogy. The specialization of Ethnomusicology is available through the degrees Master of Arts and Doctor of Philosophy. See the section Regulations Governing the Degree of Master of Arts and Specific Program Regulations and the section Regulations Governing the Degree of Doctor of Philosophy and Specific Program Regulations, respectively.”

Amend the second paragraph to read as follows:

“Within the three broad areas of specialization offered for the M.Mus., there is considerable flexibility available to further focus the program to meet specific interests and needs. These programs offer the...”

72.2 Department of Psychology

Page 485, 2004-2005 Calendar, under the heading Psychology, subheading Master of Science, subheading Experimental Psychology, delete clauses “a), b), c), d), e), f)” in their entirety and replace with the following:
Department of Psychology (cont’d)

“a) Animal Behaviour (see Cognitive and Behavioural Ecology Program)
b) Behavioural Neuroscience
c) Cognitive Psychology
d) Developmental Psychology
e) Social Psychology”

Amend the following paragraph to read as follows:

“Candidates in Behavioural Neuroscience shall normally complete 12 credit hours. Candidates in other areas of Experimental Psychology shall normally complete 18 credit hours. At the beginning of his/her...”

Under the subheading Courses, add:

“6801. Behavioural Neuroscience II”

Page 440, 2004-2005 Calendar, under the heading Master of Applied Social Psychology (Co-operative), under the subheading C) Evaluation and Advancement, under clause “3.” insert a new second paragraph to read as follows:

“Work Term jobs may be outside St. John’s and possibly outside Newfoundland. Students who do not wish to accept a Work Term job arranged by CESC shall be responsible for finding an alternative acceptable to the Head of Psychology and the CESC.”

REGULAR AGENDA

73. REPORT OF THE SENATE COMMITTEE ON UNDERGRADUATE STUDIES

73.1 Faculty of Education

Page 266, 2004-2005 Calendar, under the heading Table of Contents, under the subheading Diploma Regulations, delete “Diploma in Technology Education”.

Under the subheading Course Descriptions, delete “3700” and “Technology Education”.

Page 268, 2004-2005 Calendar, under the heading Diploma Programs, delete “Diploma in Technology Education”.

Immediately following the heading Teacher Certification, amend the paragraph to read as follows:

“Teacher Certification...P.O. Box 8700, St. John’s, NL, A1B 4J6, for advice...”

Page 268, 2004-2005 Calendar, beginning with the section entitled “Admission” up to and including the section entitled “Regulations for the Degree of Bachelor of Education (Intermediate/Secondary) conjoint with the
Faculty of Education (cont’d)

Diploma in Technology Education” delete in its entirety and replace with the following:

“ADMISSION

NOTE: It is possible that individuals who have been convicted of a crime against a person may not be accepted into a school as required under the Faculty of Education degree and diploma regulations.

1) Admission to programs within the Faculty of Education is limited, selective and highly competitive. Meeting minimum admission requirements does not guarantee acceptance to a program. The Faculty reserves the right to limit the number of spaces available in each program. When the number of eligible applicants exceeds the number of spaces available in a particular program, preference may be given to students who are permanent residents of Newfoundland and Labrador.

2) Applicants for admission to a program within the Faculty of Education must submit the appropriate completed application form and all supporting documentation to the Office of the Registrar in accordance with the deadlines specified for each program below. Letters of reference and personal statement as required by the application form must be forwarded directly to the Faculty of Education. Students who must apply for admission/readmission to the University must also submit the General Application for Admission/Readmission to the Office of the Registrar within the deadlines specified in the University Diary.

<table>
<thead>
<tr>
<th>Program</th>
<th>Commencement Date</th>
<th>Application Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Education (Primary/Elementary)</td>
<td></td>
<td></td>
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<tr>
<td>FAST TRACK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Education (Primary/Elementary)</td>
<td>Fall</td>
<td>January 15</td>
</tr>
<tr>
<td>Bachelor of Education (Intermediate/Secondary)</td>
<td>Fall</td>
<td>January 15</td>
</tr>
<tr>
<td>Bachelor of Education (Intermediate/Secondary)</td>
<td>Spring</td>
<td>December 1</td>
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<tr>
<td>Conjoint with the Diploma in Technology Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Music Education - first and second degree</td>
<td>Fall</td>
<td>January 15</td>
</tr>
<tr>
<td>Bachelor of Special Education</td>
<td>Fall</td>
<td>January 15</td>
</tr>
<tr>
<td>Native &amp; Northern Teacher Education Programs</td>
<td>ongoing intake</td>
<td></td>
</tr>
</tbody>
</table>
3) Admission to programs within the Faculty of Education is determined by a Selections Committee and is based on the criteria listed for each degree/diploma program. Applicants who are completing courses at this or another institution and for whom final and complete transcripts are not yet available may be granted provisional acceptance to the program to which they are applying pending the receipt of final transcripts. This provisional acceptance will remain valid until final transcripts are received. Provisionally acceptance applicants may be granted a final acceptance upon review of the final transcript by the Selections Committee. The Faculty reserves the right to deny admission to a candidate who, in the opinion of the Selections Committee, is deemed unsuitable for admission to a program.

4) Students who have been admitted to a program in the Faculty of Education requiring a teaching internship are advised that they may be assigned to any Provincial school district and are responsible for all travel and accommodation costs associated therewith.

5) Students who have been admitted to a particular degree program offered by the Faculty of Education and who wish to change to another degree program within the Faculty must submit a new Faculty application form to the Office of the Registrar that will be considered in competition with all other students.

6) In special circumstances, the Committee on Undergraduate Studies, on recommendation from the Admissions Committee may, at its discretion, consider an applicant or group of applicants as an exception to the requirements.

7) Students who decline an offer of admission to the Faculty of Education, or who do not register for courses during the academic year in which admission is granted must, if they wish to be subsequently considered for admission, submit a new application in competition with other applicants.

8) An unsuccessful applicant has the right to appeal against the decision of the Admissions Committee not to offer him/her a place, if it is felt by the applicant that the decision was reached on grounds other than those specified in the admission requirements listed in the Faculty of Education section of the Calendar. The appeal should be made in writing within twenty one days of the notification of the decision and should be directed to the Dean of Education. The letter should state clearly and fully the grounds for the appeal. If the Dean of Education, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated. Normally, appeals will only be considered in the case of procedural error and/or receipt of new information that is relevant to the application. (Students
Faculty of Education (cont’d)

are advised to refer to General Academic Regulations (Undergraduate), Appeal of Regulations section of the MUN Calendar).

REGULATIONS FOR READMISSION AND ADVANCEMENT

These regulations apply to all programs except the Bachelor of Education (Intermediate/Secondary) and the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education which have separate readmission and advancement regulations.

1) a) Following admission to a program of the Faculty of Education, all full-time students must obtain a semester average of at least 65% in order to remain in clear standing in the Faculty.

b) These regulations will be applied to part-time students only after they have completed 12 consecutive credit hours on a part-time basis.

2) Students who fail to obtain a semester average of 65% but who are eligible for readmission under UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) will be placed on probation in the Faculty. Probationary students who fail to obtain a 65% average during the next semester in which they complete courses will be required to withdraw from the Faculty.

3) Students completing the Bachelor of Education (Primary/Elementary), Bachelor of Music Conjoint with Bachelor of Music Education, or the Bachelor of Music Education as a Second Degree who attain a grade of FAL (fail) in their internship will either:

a) be required to withdraw from the program; or

b) with the recommendation of the Office of Undergraduate Student Services, Faculty of Education, repeat the internship in another school setting.

4) Students who have been required to withdraw from the Faculty of Education may, after a lapse of at least two semesters, apply for readmission to the Faculty. Students who are readmitted under this Clause will be considered probationary and must meet requirements stated in Clause 2 above.

5) Students who are required to withdraw from the University under UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) will be required to withdraw from the Faculty of Education.

6) Students who have been required to withdraw from the Faculty on two occasions will be ineligible for future readmission.

7) Notwithstanding Clauses 1 through 4, the Committee on Undergraduate Studies on recommendation from the Admissions Committee reserves the right to require students to withdraw from the Faculty at any time if, in the
Faculty of Education (cont’d)

opinion of the Committee, they are deemed unsuitable for continued attendance in the programs.

8) Students who have been required to withdraw from the Faculty may register only in those Education courses listed as applicable for non-education students.

9) In exceptional circumstances, the Committee on Undergraduate Studies may waive the Readmission and Advancement regulations for the Faculty of Education as stated above.

REGULATIONS FOR READMISSION AND ADVANCEMENT FOR THE BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY) AND BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY) CONJOINT WITH THE DIPLOMA IN TECHNOLOGY EDUCATION

1) Students must successfully complete all courses, attain an overall semester average of at least 65%, and a grade of PAS (pass) in the internship. Students failing to meet any of the above criteria will be required to withdraw from the program.

2) Notwithstanding Clause 1, the Committee on Undergraduate Studies, on recommendation from the Admissions Committee, reserves the right to require students to withdraw from the Faculty at any time if, in the opinion of the Committee, they are deemed unsuitable for continued attendance in the programs.

3) In exceptional circumstances, waiver of these regulations may be granted by the Committee on Undergraduate Studies, Faculty of Education, on advice of the Office of Undergraduate Student Services.

REGISTRATION IN EDUCATION COURSES (NON-EDUCATION STUDENTS)

Registration in Education courses is normally restricted to those students who have been admitted to a degree or diploma program in the Faculty of Education. Students in first year or students in other Faculties or Schools who have completed not fewer than 24 credit hours may register for the following courses in Education without acceptance to a program:

| Education 2040 | Education 3210 | Education 3571 |
| Education 2800 | Education 3211 | Education 3590 |
| Education 2801 | Education 3560 | Education 3660 |
| Education 2803 | Education 3570 |

Such students are advised to consult degree regulations governing their particular degree program to determine which, if any, of the above courses can be applied to their degree program. The above notwithstanding, students needing Education courses for Provincial Vocational Education Certification may, with permission of the Office of Undergraduate Student Services, be allowed to register for the required courses.
REGISTRATION IN EDUCATION COURSES
(TEACHER CERTIFICATION UPGRADING)

Students having completed a degree program in Education or equivalent who wish to register in Education courses for certification upgrading purposes should contact the Office of Undergraduate Student Services at least two weeks in advance of registration for permission/procedure.

BACHELOR OF EDUCATION (PRIMARY/ELEMENTARY)

General Comment:

The Bachelor of Education (Primary/Elementary) is a 150 credit hour, 5 year program designed to prepare teachers for kindergarten through grade six. All students will attend full time during the Professional Year, that involves both a specific set of courses and a field experience. The Professional Year is followed by a full semester teaching internship and a subsequent semester of study intended to allow students to build on strengths and remedy weaknesses that may have become apparent during the internship.

Basic computer keyboarding skills will be expected during the first semester of this program.

Refer to the table on page _____ for application deadlines.

ADMISSION

1) Consideration will be given to the courses for which students are registered at the time of application. Applicants who will have completed all requirements for admission by the end of the Spring semester of the year that admission is being sought will be considered as time and resources permit.

2) To be considered for admission students must have successfully completed 60 credit hours as outlined in Clauses a) - h) below with a cumulative average of at least 65% or an average of at least 65% on the last attempted 30 credit hours. The 60 credit hours are:

a) twelve credit hours in English including at least six credit hours at the 2000 level or above
b) Mathematics 1050 AND 1051 OR Mathematics 1000 (or a Focus Area in Mathematics)
c) six credit hours in Psychology
d) Science 1150 and 1151; or 9 credit hours in Science; 3 credit hours each to be chosen from Biochemistry, Biology, Chemistry, Earth Science, Environmental Science, or Physics (or a Focus Area in Science)
e) six credit hours chosen in any combination from Anthropology, Economics, Folklore, Geography, History, Political Science, Sociology
f) three credit hours in French, or equivalent
g) fifteen credit hours as part of a Focus Area
h) additional credit hours from areas other than Education.

3) In assessing applications to the Bachelor of Education (Primary/Elementary) degree program, consideration will be given to student's:
Faculty of Education (cont’d)

a) average in the courses required for admission in Clauses 2a)-e) above;
b) overall academic performance; and
c) personal statement, references and resume as outlined on the application to the Faculty.

REGULATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION (PRIMARY/ELEMENTARY)

1) Candidates for the degree of Bachelor of Education (Primary/Elementary) will be required to complete a minimum of 150 credit hours in accordance with Clauses 2) and 3) below. Appropriate courses completed prior to admission to the Faculty of Education will be included in the total number of courses required for the degree. Students:

a) will normally follow the Program Plan as outlined below;
b) must enrol full-time during the Professional Year; and
c) may enrol in the Internship only after successful completion of the Professional Year.

2) A candidate shall be required to complete a minimum of 75 credit hours in non-Education courses. These courses will normally be completed prior to the Professional Year. The courses are:

a) twelve credit hours in English including at least six credit hours at the 2000 level or above
b) Mathematics 1050 AND 1051 OR Mathematics 1000 (or a Focus Area in Mathematics)
c) six credit hours in Psychology.
d) Science 1150 and 1151; or 9 credit hours in Science; 3 credit hours each to be chosen from Biochemistry, Biology, Chemistry, Earth Science, Environmental Science, or Physics (or a Focus Area in Science)
e) six credit hours chosen in any combination from Anthropology, Economics, Folklore, Geography, History, Political Science, Sociology
f) three credit hours in French, or equivalent.
g) eighteen to 24 credit hours as listed in one of the Focus Areas below
h) Human Kinetics and Recreation (HKR) 2001, and
i) additional credit hours from areas outside of Education for a total of 75 credit hours.

Focus Areas:

Art (18 credit hours):
-Visual Arts courses in Art History at Sir Wilfred Grenfell College may be used to satisfy this requirement in whole or in part.

English (24 credit hours):
-Six credit hours at the 1000 level
-2390
-Three credit hours chosen from 2000, 2001, 2005-2007, 3200, 3201, 3395
-Three credit hours chosen from 2002-2004, 2010 or 2020, 2350, 2351
-Six credit hours chosen from 2150, 2151, 2152, 2155, 2156, 3145-3148, 3155-3158
-Three additional credit hours at the 2000 level or above
Faculty of Education (cont’d)

**Folklore (24 credit hours):**
-1000 or 2000
-2100, 2300, 2401, 2500
-Three credit hours chosen from 3450 or 3930
-Six credit hours chosen from the 3000 or 4000 level

**French (18 credit hours):**
-A maximum of six credit hours at the 1000 level
-2100 or equivalent
-2101 or equivalent
-2300 or equivalent
-3100 or 3101 or equivalent
-At least 5 weeks at an approved francophone institution in a French speaking area
-It is recommended that students complete at least one of 2900, 3650, 3651, 3652, or 3653

*NOTE: Students may wish to select the French Immersion option listed at the end of Program Plan: Bachelor of Education (Primary/Elementary).*

**Geography (18 credit hours):**
-1050, 2001, 2102, 2195, 2302, and 2425;
OR
-1000 and 1001, OR 1010 and 1011, and twelve credit hours in courses chosen from 2001, 2102, 2195, 2302, and 2425

**History (18 credit hours):**
-Six credit hours chosen from 1010-1015, 1100, 1101, 1200
-Six credit hours at the 2000 level
-3110, 3120

**Linguistics (18 credit hours):**
-1100 or 2100
-1103 or 2103, 1104 or 2104, 2210
-Six credit hours chosen from 3000, 3100, 3104, 3105, 3150, 3155, 3201, 3212, 3500, 3850

**Mathematics (18 credit hours including):**
No more than six credit hours at the 1000 level and at least 3 credit hours at the 3000 level.

**Music (18 credit hours):**
-1120
-Six credit hours chosen from 2011, 2012, 3014 or 3015, 3016
-Six credit hours chosen from 3017, 3018, 4440
-Three credit hours chosen from 2021, 2022, 2023, 2611 or 2614

**Physical Education (HKR) (18 credit hours):**
-1000, 2210, 2300
-Nine credit hours chosen from 1001, 2002, 2310, 2320, 3300, 3360

**Religious Studies (18 credit hours including):**
-1000
Faculty of Education (cont’d)

- Three credit hours from 2013, 2130, 2140, 2330, 2340
- Three credit hours from 2400, 2410, 2420, 2425, 2430
- Three credit hours from 2350, 2610, 2810, 2811, 2812, 2820, 2830
- Six credit hours at the 3000 level or above

Science (18 credit hours including):
At least six credit hours in each of two subject areas selected from Biochemistry, Biology, Chemistry, Earth Science, Environmental Science, or Physics.

3) A candidate shall be required to complete a minimum of 75 credit hours in Education including the following:

a) Education 3120, 3131, 3273, 3312, 3322, 3484, 3543, 3618, 3619, 3940, 3951, 3952, 3962, 4362, 4383, and 4425
b) six credit hours chosen from Education 2050, 2194, 2530, 3050, 3755, 4205, 4240 or 4242. For students whose Focus Areas are French, Physical Education, Music, or Religious Studies, one of these courses will be determined by the particular focus area.
c) a 15 credit hour internship (Education 401X)
d) six credit hours chosen from the elective offerings in Primary/Elementary Education.

PROGRAM PLAN: BACHELOR OF EDUCATION (PRIMARY/ELEMENTARY):

60 Credit Hours Required for Admission

EDUCATION SEMESTER ONE - FALL

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 3618: Nature of the Primary/Elementary School Child -</td>
</tr>
<tr>
<td>Development</td>
</tr>
<tr>
<td>Education 3951: Curriculum, Instruction and Assessment in the</td>
</tr>
<tr>
<td>Primary/Elementary School I</td>
</tr>
<tr>
<td>HKR 2001: Introduction to Physical Education for Primary/Elementary</td>
</tr>
<tr>
<td>Education Students</td>
</tr>
<tr>
<td>Two Non-education Electives</td>
</tr>
</tbody>
</table>
Faculty of Education (cont’d)

EDUCATION SEMESTER TWO - WINTER

<table>
<thead>
<tr>
<th>Course</th>
</tr>
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<tbody>
<tr>
<td>Education 3484: Computers and Learning Resources for Primary/Elementary Teachers</td>
</tr>
<tr>
<td>Education 3619: Nature of the Primary/Elementary School Child - Learning and Cognition</td>
</tr>
<tr>
<td>Education 3952: Curriculum, Instruction and Assessment in the Primary/Elementary School II</td>
</tr>
<tr>
<td>Two Non-education Electives</td>
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</tbody>
</table>

EDUCATION SEMESTER THREE - FALL
(PROFESSIONAL YEAR SEMESTER ONE)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four Education courses from 3120, 3131, 3273, 3312, 3322, 3940, 3962 (to be determined by the Office of Undergraduate Student Services)</td>
</tr>
<tr>
<td>One Education course from clause 3.b)</td>
</tr>
<tr>
<td>Non-credit Field Experience (five days)</td>
</tr>
</tbody>
</table>

EDUCATION SEMESTER FOUR - WINTER
(PROFESSIONAL YEAR SEMESTER TWO)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Four additional Education courses from 3120, 3131, 3273, 3322, 3543, 3940, 3962 (to be determined by the Office of Undergraduate Student Services)</td>
</tr>
<tr>
<td>One additional Education course from clause 3.b)</td>
</tr>
<tr>
<td>Non-credit Field Experience (five days)</td>
</tr>
</tbody>
</table>

EDUCATION SEMESTER FIVE - FALL

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 401X: Undergraduate Teaching Internship (15 credit hours)</td>
</tr>
</tbody>
</table>
Faculty of Education (cont’d)

EDUCATION SEMESTER SIX* - WINTER

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 4362: Sociological Perspectives on Teaching and Learning</td>
</tr>
<tr>
<td>Education 4383: Philosophy of Teaching and Learning</td>
</tr>
<tr>
<td>Education 4425: Introduction to Educational Administration</td>
</tr>
<tr>
<td>Two Education Electives</td>
</tr>
</tbody>
</table>

*Students have the option of completing semester six courses in the Spring semester following the Professional Year.

FRENCH IMMERSION OPTION

In addition to meeting the Admission Requirements for the Bachelor of Education (Primary/Elementary) Degree Program, students applying for this option must have French as a Focus Area. Admitted students will spend the two semesters of the Professional year in a French milieu. Except as modified in Clauses (a)-(c) below, these students must meet all requirements stated for the Bachelor of Education (Primary/Elementary).

These students will successfully complete:

a) prior to the beginning of the Professional Year
   i) at least 27 credit hours in French, including French 3100 and 3101,
      ii) either high school French Immersion including Francais 3202 or at least one semester of study in a French milieu,

b) the Professional Year in a French milieu, including the equivalent of Education 4155 and Education 3050 to satisfy Clause 3) b) above.

c) the Internship in a French Immersion setting.

Students who are interested in the French Immersion Option should contact the Office of Undergraduate Student Services, Faculty of Education, at their earliest opportunity.

Given sufficient numbers, this program may be available in a four consecutive semester “fast track” format for students who have completed all non-Education requirements prior to admission. The 23 Education courses required for this program include all of the requirements below. The total number of credit hours required for graduation remains at 150. Details of the program may be obtained from the Office of Undergraduate Services, Faculty of Education.
Faculty of Education (cont’d)

BACHELOR OF EDUCATION (PRIMARY/ELEMENTARY) DEGREE PROGRAM

FAST TRACK DELIVERY

The fast track delivery option (four consecutive semesters) provides for a more timely completion of the Bachelor of Education (Primary/Elementary) Degree Program for those applicants who have already completed a substantial number of academic courses (78+ credit hours) applicable to this degree. The seventy-eight credit hours must include the sixty credit hours as outlined above, together with a completed focus area and all non-education academic electives. The total number of credit hours for the degree remains at 150.

The number of courses following admission is 23 Education courses plus HKR 2001. A non-credit, ten day field experience will also be provided.

Program Plan*

Spring - Semester I: 6 Education courses (18 credit hours)
- Education 3120 - Foundations of Art Education
- Education 3273 - Science in the Primary/Elementary Grades
- Education 3312 - Language Arts in the Primary/Elementary School I
- Education 3618 - Nature of the Primary/Elementary School Child - Development
- Education 3951 - Curriculum, Instruction and Assessment in the Primary/Elementary School I
- Education 3962 - Social Studies in the Primary/Elementary School

Fall - Semester II: 6 Education courses (18 credit hours)
- Education 3322 - Children’s Literature in the Primary/Elementary School
- Education 3484 - Computers and Learning Resources for Primary/Elementary Teachers
- Education 3543 - Language Arts in the Primary/Elementary School II
- Education 3619 - Nature of the Primary/Elementary School Child - Learning and Cognition
- Education 3940 - Mathematics in Primary and Elementary Grades
- One Education Elective

Winter- Semester III: Teaching Internship and 1 Education course (18 credit hours)
- Education 401X - Undergraduate Teaching Internship
- Education 4425 - Introduction to Educational Administration (WWW)

Spring - Semester IV: 6 courses (18 credit hours)
- Education 3131 - Music Education in the Primary/Elementary Grades
- Education 3952 - Curriculum, Instruction and Assessment in the Primary/Elementary School II
- Education 4362 - Sociological Perspectives on Teaching and Learning
- Education 4383 - Philosophy of Teaching and Learning
- One Education Elective
- HKR 2001 - Introduction to Physical Education for Primary/Elementary Education Students
Faculty of Education (cont’d)

Due to the nature of the French Immersion option of the primary/elementary program, the fast track delivery is not available to applicants preparing to be French Immersion teachers.

* Sequencing of course offerings may be modified.

**BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY)**

General Comment:

The Bachelor of Education (Intermediate/Secondary) is a second degree program designed to prepare Intermediate and Secondary School teachers. All students attend full-time and should graduate in one calendar year. The program is designed to provide students with an early field experience, a sequenced set of courses prior to a full semester internship and a range of courses after the internship designed so that students can reflect on their school experiences and make further connections between theory and practice.

**ADMISSION**

1) Refer to the table on page _____ for application deadlines. Consideration will be given to the courses for which students are registered at the time of application. Applicants who will have completed all requirements for admission by the end of the Spring semester of the year that admission is being sought will be considered as time and resources permit. Students attending institutions other than Memorial must supply transcripts indicating Winter semester grades no later than June 15.

2) To be considered for admission to the Bachelor of Education (Intermediate/Secondary) Degree Program, individuals must have:

   a) been awarded a Bachelor’s Degree from a university recognized by Memorial University of Newfoundland;

   b) i. completed 36 credit hours in a subject listed under Academic Disciplines in Clause 3 below (Religious Studies, Business Studies and Newfoundland Studies cannot be used to satisfy the 36 credit hour requirement), and

   ii. completed 24 credit hours in a subject listed under Academic Disciplines in Clause 3 below but different from that in b) i., and

   c) achieved an overall average of at least 65% in each of the sets of courses in b) i. and b) ii.

3) Academic Disciplines are deemed to be the disciplines on the following list. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed Academic Disciplines will be acceptable.

   - Biochemistry**
   - Biology**
   - Business Studies***
   - Canadian Studies
   - Chemistry**

   - Geography
   - History
   - Mathematics (Pure and Applied Mathematics, Statistics)
   - Newfoundland Studies
Faculty of Education (cont’d)

Earth Sciences** Economic
English Environmental Science**
French General Science

*In order to be considered for admission within this Academic Discipline, students must have completed courses in the following areas: Anatomy, Physiological, Motor Learning, Kinesiology, Evaluation and Testing in Physical Education, Primary/Elementary Physical Education Curriculum and Teaching, Issues and Trends in HPERS and a minimum of 6 activities.

**Students who use General Science as an Academic Discipline may use courses from these separate science disciplines in any combination, but must complete a minimum of 12 credit hours in each separate science discipline used.

***Students who use Business Studies as an academic discipline must have at least a minor in Business Administration.

NOTES:
1) When calculating averages in the first and second teachable areas, no more than two 1000-level courses in each of the first and second teachable areas will normally be used.
2) A limited number of program spaces are allocated to each discipline. Students who are admitted with a particular Academic Discipline and who wish to change to a different Academic Discipline must obtain permission of the Office of Undergraduate Student Services. Such changes may not be possible in particular areas.
3) Applicants are advised that admission to the program on the basis of academic disciplines is dependent on sufficient numbers of students to warrant the offering of applicable methodology courses in those disciplines in any given year.

4) Candidates who are registered in their final semester of their first Bachelor's Degree program during the Winter semester must have satisfied the academic requirements set out in Clause 2 above upon completion of their first degree program.

5) In assessing applications to the Bachelor of Education (Intermediate/Secondary) Program, consideration will be given to the following:

a) average in each of the two academic disciplines;
b) overall academic performance; and
c) personal statement, references and resume as outlined on the application to the Faculty.

6) Because of the structured, sequential nature of this program, students must attend full-time. Students who drop any course which is part of the program will be dropped from the entire program.
Faculty of Education (cont’d)

7) Students who have been admitted to the program but choose not to attend in the Fall semester of their year of admission will lose their admission status. Such a student may reapply for admission at a later date, and must submit a new application which will be considered in competition with those of all other applicants.

REGULATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY)

1) A candidate for the degree of Bachelor of Education (Intermediate/Secondary) shall complete 51 credit hours; including a non-credit field experience, 36 credit hours, and a 15 credit hour internship in a sequence as prescribed by the Program Plan (see below). Candidates must also have complied with the Regulations for Readmission and Advancement for this program.

2) The non-credit early field experience shall include a minimum of thirty hours of school visitation during the first semester of the program.

3) The 36 credit hours shall include:

a) twenty-one credit hours as follows:

(i) Education 4005, 4260, 4361, 4381, and 4950

(ii) Two of the following: Education 4120, 4121, 4142, 4154, 4161, 4174, 4175, 4180, 4181, 4190, 4203. These methodology courses must be chosen to match the Academic Disciplines under which the student was admitted. Those whose discipline is Geography are required to do either Education 4180 or 4174. Those whose area is Social Studies (academic disciplines of Business Studies, Canadian Studies, Economics, Geography, History, Newfoundland Studies, and Political Science) are required to do Education 4180. Students whose first and second academic disciplines are in Social Studies are required to do Education 4180 and 4181. Students whose first and second academic disciplines are in the sciences (Biochemistry, Biology, Chemistry, Earth Sciences, Environmental Sciences, General Science, Physics) are required to do Education 4174 and 4175.

b) fifteen credit hours in electives chosen from the list below:

Education 2222, 2900, 3210, 3211, 3255, 3565, 3570, 3571, 3943, 4144, 4151, 4163, 4172, 4182, 4204, 4240, 4242, 4275, 4340, 4350, 4354, 4356, 4382, 4420, 4425, 4480, 4580, 4610, 4945.

NOTE: Students intending to apply to the Bachelor of Special Education degree program should complete Education 4240 or Education 4242 and 4350.
Faculty of Education (cont’d)

**PROGRAM PLAN**

*SEMESTER 1 (Fall)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom Observation (No Credit)</td>
<td>No Credit</td>
</tr>
<tr>
<td>Education 4361 (Teaching and the Contemporary Classroom)</td>
<td>3.0</td>
</tr>
<tr>
<td>Education 4005 (Effective Teaching)</td>
<td>3.0</td>
</tr>
<tr>
<td>Education 4260 (The Nature of Adolescence)</td>
<td>3.0</td>
</tr>
<tr>
<td>Two Methods Courses (from 3.a.ii)</td>
<td>3.0</td>
</tr>
<tr>
<td>Education 4950 (Evaluation of Teaching and Learning)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

*Due to the Classroom Observation component this semester will extend one week longer than the regularly scheduled teaching semester.

SEMESTER 2 (Winter)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 405X (15-credit hour Internship)</td>
<td>15</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (Spring)**

<table>
<thead>
<tr>
<th>Intersession (6 Weeks)</th>
<th>Summer Session (6 Weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Electives From Clause 3(b)</td>
<td>Two Electives From Clause 3(b)</td>
</tr>
</tbody>
</table>

**Spring Semester (14 Weeks)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective From Clause 3(b)</td>
<td>3.0</td>
</tr>
<tr>
<td>Education 4381 (Perspectives on Schooling)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Courses may be offered in the Spring, Intersession and/or Summer Session.

**BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY) CONJOINT WITH THE DIPLOMA IN TECHNOLOGY EDUCATION**

**General Comment:**

The Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education is a program designed to prepare both
Faculty of Education (cont’d)

Intermediate/Secondary and Technology Education teachers. Students in the program will complete a number of courses that address the development of basic skills and competencies in a variety of technological areas and how to apply them through design and problem solving processes in a school classroom/laboratory setting. All students attend full-time and should graduate in four semesters. This conjoint program is designed to provide students with an early field experience, a sequenced set of courses prior to a full semester internship and a range of courses after the internship designed so that students can reflect on their school experiences and make further connections between theory and practice.

ADMISSION

1) Consideration will be given to the courses for which students are registered at the time of application. Refer to the table on page _____ for application deadlines. Students attending institutions other than Memorial must supply transcripts indicating Fall semester grades no later than February 1.

2) To be considered for admission to the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education program individuals must have:

a) been awarded a Bachelors Degree from a university recognized by Memorial University of Newfoundland;
b) completed 36 credit hours in a subject listed under Academic Disciplines in Clause 3 below; and
c) achieved an overall average of at least 65% in the courses chosen to meet b) above.

3) Academic Disciplines are deemed to be the disciplines on the following list. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed Academic Disciplines will be acceptable.

<table>
<thead>
<tr>
<th>Biochemistry**</th>
<th>Geography</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology**</td>
<td>History</td>
</tr>
<tr>
<td>Canadian Studies</td>
<td>Mathematics (Pure and Applied</td>
</tr>
<tr>
<td>Chemistry**</td>
<td>Mathematics, Statistics)</td>
</tr>
<tr>
<td>Earth Sciences**</td>
<td>Physical Education*</td>
</tr>
<tr>
<td>Economics</td>
<td>Physics**</td>
</tr>
<tr>
<td>English</td>
<td>Political Science</td>
</tr>
<tr>
<td>Environmental Science**</td>
<td>Theatre Arts</td>
</tr>
<tr>
<td>French</td>
<td>Visual Arts</td>
</tr>
<tr>
<td>General Science</td>
<td></td>
</tr>
</tbody>
</table>

*In order to be considered for admission within this Academic Discipline, students must have completed courses in the following areas: Anatomy, Physiology, Motor Learning, Kinesiology, Evaluation and Testing in Physical Education, Primary/Elementary Physical Education Curriculum and Teaching, Issues and Trends in HPERS and a minimum of 6 activities.

** Students who use General Science as an Academic Discipline may use courses from these separate science disciplines in any combination, but must complete a minimum of 12 credit hours in each science discipline used.
Faculty of Education (cont’d)

NOTES:
1) When calculating the average in the 36 credit hours required under clause 2)b) above, no more than two 1000-level courses will normally be used.
2) A limited number of program spaces are allocated to each discipline. Students who are admitted with a particular Academic Discipline and who wish to change to a different Academic Discipline must obtain permission of the Office of Undergraduate Student Services. Such changes may not be possible in particular areas.
3) Applicants are advised that admission to the program is dependent on sufficient numbers of students to warrant the offering of applicable methodology courses in those disciplines in any given year.

4) Candidates who are registered in their final semester of their first Bachelor’s Degree program during the Winter semester must have satisfied the academic requirements set out in Clause 2) above upon completion of their first degree program.

5) In assessing applications to the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education Program, consideration will be given to the following:

a) average in courses in clause 2)b);
   b) overall academic performance; and
   c) personal statement, references and resume as outlined on the application to the Faculty.

6) Because of the structured, sequential nature of this program, students must attend full-time. Students who drop any course which is part of the program will be dropped from the entire program.

7) Students who have been admitted to the program but choose not to attend in the Spring semester of their year of admission will lose their admission status. Such a student may reapply for admission at a later date, and must submit a new application which will be considered in competition with those of all other applicants.

REGULATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY) CONJOINT WITH THE DIPLOMA IN TECHNOLOGY EDUCATION

1) A candidate for the degree of Bachelor of Education (Intermediate/Secondary) conjoint with the Diploma in Technology Education shall complete 66 credit hours including a non-credit field experience, 27 credit hours in Intermediate/Secondary Education, 24 credit hours in Technology Education, and a 15 credit hour internship in a sequence as prescribed by the Program Plan (see below). Candidates must also have complied with the Regulations for Readmission and Advancement for this program.

2) The non-credit early field experience shall include a minimum of thirty hours of school visitation during the second semester of the program.

3) The 27 credit hours in Intermediate/Secondary Education shall include:
Faculty of Education (cont’d)

a) Eighteen credit hours as follows:

(i) Education 4005, 4260, 4361, 4381, and 4950

(ii) One of the following: Education 4120, 4121, 4142, 4154, 4161, 4174, 4180, 4181, 4190. The methodology course must be chosen to match the Academic Discipline under which the student was admitted. Those whose discipline is Geography are required to do either Education 4180 or 4174. Those whose area is Social Studies (academic disciplines of Canadian Studies, Economics, Geography, History, and Political Science) are required to do Education 4180.

b) Nine credit hours in electives chosen from:

Education 2222, 2900, 3210, 3211, 3255, 3565, 3570, 3571, 4144, 4151, 4163, 4172, 4182, 4240, 4242, 4275, 4340, 4350, 4354, 4356, 4382, 4420, 4425, 4480, 4580, 4610.

NOTE: Students intending to apply to the Bachelor of Special Education degree program should complete Education 4240 or Education 4242 and 4350.

4) The 24 credit hours in Technology Education shall include Education 2711, 2750, 2751, 3750, 3751, 4750, 4751, 4752.

PROGRAM PLAN

*SEMESTER 1 (Spring)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 2711 (Course Organization and Development in Technology Education)</td>
</tr>
<tr>
<td>Education 2750 (Introductory Design and Materials Processes)</td>
</tr>
<tr>
<td>Education 2751 (Introductory Communications and Power Technology)</td>
</tr>
<tr>
<td>Education 3750 (Intermediate Design and Materials Processing Technology)</td>
</tr>
<tr>
<td>Education 3751 (Integrated Communications and Power Technology)</td>
</tr>
</tbody>
</table>

*Courses may be offered in the Spring, Intersession and/or Summer Session.

**SEMESTER 2 (Fall)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom Observation (No Credit)</td>
</tr>
<tr>
<td>Education 4361 (Teaching and the Contemporary Classroom)</td>
</tr>
<tr>
<td>Education 4005 (Effective Teaching)</td>
</tr>
<tr>
<td>Education 4260 (The Nature of Adolescence)</td>
</tr>
</tbody>
</table>
One Method Course (from 3.a.ii) and Education 4751 (Advanced Communications Systems)

Education 4950 (Evaluation of Teaching and Learning)

*Due to the Classroom Observation component this semester will extend one week longer than the regularly scheduled teaching semester.

SEMESTER 3 (Winter)

Education 405X (15-credit hour Internship)

*SEMESTER 4 (Spring)

Education 4381 (Perspectives on Schooling)

Education 4750 (Integrated Materials and Production Processes)

Education 4752 (Technology Education, Specialized)

3 electives from clause 3(b)

*Courses may be offered in the Spring, Intersession and/or Summer Session.”

Page 276, 2004-2005 Calendar, beginning with the section entitled “Regulations for the Degree of Bachelor of Special Education” up to and including the section entitled “Regulations for the Diploma in Adult Teacher Education” delete in its entirety and replace with the following:

**BACHELOR OF SPECIAL EDUCATION**

General Comment: This degree program is for the preparation of Special Education teachers and is available through part-time or full-time study. Candidates must comply with the University’s Regulations for a Second Degree as outlined in the General Regulations section of the Calendar. Refer to the table on page _____ for application deadlines.

**ADMISSION**

1) Consideration will be given to the courses for which students are registered at the time of application. Provisional acceptance may be granted to students who will successfully complete all prerequisites prior to commencement of Program.

2) To be considered for admission candidates shall have a minimum of a 65% average in the last 60 attempted credit hours and also meet the following requirements:

   a) hold a degree in Primary and/or Elementary, Music Education, or Intermediate/Secondary Education from Memorial University of Newfoundland or another Education degree deemed appropriate by the Faculty of Education, AND have credit for one of Education 4240 or 4242 or the former Education 3220 or 3230 (or equivalent). Intermediate/Secondary
Faculty of Education (cont’d)

graduates must also have credit for Education 4350; Music Education graduates must also have credit for one of Education 3312, 3543 or 4350.

b) have successfully completed a professional internship in education or have equivalent teaching experience prior to admission.

REGULATIONS FOR THE DEGREE OF BACHELOR OF SPECIAL EDUCATION

To be eligible for the Degree in Special Education, a student must have completed:

EITHER

a) the Memorial University of Newfoundland Bachelor of Education Degree Primary and/or Elementary, Music Education, or Intermediate/Secondary, or another Education degree deemed appropriate by the Faculty of Education, and

b) 36 credit hours as follows:

(i) Required courses: Education 3600, 3610, 3620, 3630, 3650.
(ii) 21 credit hours selected from the elective offerings in Special Education.

OR

c) the Memorial University of Newfoundland Bachelor of Education Degree Primary and/or Elementary, Music Education, or Intermediate/Secondary, or another Education degree deemed appropriate by the Faculty of Education, and

d) Education 365X - Extended Harlow Practicum in Special Education (15 credit hours) plus Education 3600, 3610, 3620, 3630 and 9 credit hours from the elective courses in Special Education.

DEGREE AND DIPLOMA PROGRAMS IN POST-SECONDARY EDUCATION

General Comment:

These courses are designed for students admitted to the degree or diploma programs in Post-Secondary Education or instructors in Post-Secondary school settings.

ADMISSION

1. To be considered for admission to the Post-Secondary Education Degree and Diploma programs, a student must meet, in addition to the general admission requirements of the University, special admission requirements as outlined below. Refer to the table on page _____ for application deadlines.

2. Occupational training as verified by one of:
Faculty of Education (cont’d)

a) a certificate of qualification as a journeyman for a designated trade;
b) a certificate or diploma from a technical or business school or college;
c) an appropriate degree from a university;
d) satisfactory completion of a program equivalent to (a), (b) or (c) above.

3. At least one year of work experience or equivalent in the occupational area in which training was obtained. This experience must be subsequent to the completion of or concurrent with the occupational training program.

NOTE: Training and experience will be assessed and verified by the Selections Committee for Post-Secondary Education.

REGULATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION (POST-SECONDARY) AS A FIRST DEGREE

1. A candidate for the Bachelor of Education (Post-Secondary) Degree will be required to complete the equivalent of at least 120 credit hours approved by the Office of Undergraduate Student Services. The 120 credit hours must include:

a) Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700

b) Twenty-one credit hours to be chosen from: Education 2800, 2803, 2806, 3440, 3710, 3720, 3730, 4710, 4730, 4760-80.

c) Six credit hours in English.

d) Thirty non-Education credit hours patterned to strengthen the area of teaching specialization and/or provide the development of depth in a related field of study as approved by the Office of Undergraduate Student Services. Education 4760-4780 may be used to satisfy non-Education specialization course credit hour electives if not already used to satisfy clause 1.b) above.

e) Twelve additional credit hours from any subject areas outside of Education. Six of these 12 credit hours may be chosen from courses listed in clause 1.b) above if not already used to satisfy the requirements of clause 1.b).

2. Advanced standing to a maximum of 30 credit hours may be awarded for students possessing at least a combined total of six years of training and work experience in the occupational area in which training was obtained. Students who because of a deficiency of work experience are not eligible to receive the maximum of 30 credit hours advanced standing will be required to obtain further work experience and/or to complete additional university courses, either or both of which must be approved by the Admissions Sub-Committee for Post-Secondary Education.

3. At least half the credit hours required under clauses 1a) and b) above must be completed at this University.
Faculty of Education (cont’d)

REGULATIONS FOR THE BACHELOR OF EDUCATION (POST-SECONDARY) AS A SECOND DEGREE

1. Candidates must comply with the University’s Regulations for a Second Degree as outlined in the General Regulations section of the Calendar.

2. To obtain the Bachelor of Education (Post-Secondary) as a second degree a candidate must complete at least 36 credit hours in Education. The 36 credit hours must include:

   a) Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700.

   b) Fifteen credit hours of which 6 must be chosen from Education 2800, 2803, or 2806, and 9 must be chosen from 3440, 3710, 3720, 3730, 4710, 4730 or 4760-80

3. At least 9 of the credit hours required under clause 2.a) must be completed at this University.

NOTES: 1) The requirement of Education 4700 may be waived by the Committee on Undergraduate Studies on the recommendation of the Office of Undergraduate Student Services. (Please refer to Student Teaching Guidelines). 2) Work competence and experience related to occupational area is required for acceptance to this program as outlined in the Admission Requirements but no advanced standing will be granted.

REGULATIONS FOR THE DIPLOMA IN POST-SECONDARY EDUCATION

1. A candidate for the Diploma in Post-Secondary Education will be required to complete 60 credit hours as outlined below:

   a) Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700.

   b) Nine credit hours to be chosen from: Education 2803, 3440, 3710, 3720, 3730, 4710, 4730, 4760-80.

2. Advanced standing to a maximum of 30 credit hours may be awarded for students possessing at least a combined total of six years of training and work experience in the occupational area in which training was obtained. Students who because of a deficiency of work experience are not eligible to receive the maximum of 30 credit hours advanced standing will be required to obtain further work experience and/or to complete additional University courses, either or both of which must be approved by the Admissions Sub-Committee for Post-Secondary Education.

3. At least 24 of the credit hours required under clause 1.a) and b) must be completed at this University.
Faculty of Education (cont’d)

NOTE: The requirement of Education 4700 may be waived by the Committee on Undergraduate Studies on the recommendation of the Office of Undergraduate Student Services. (Please refer to Student Teaching Guidelines).

DIPLOMA IN ADULT TEACHER EDUCATION

Refer to the table on page _____ for application deadlines.

1. To be admitted to the Diploma Program in Adult Teacher Education, an applicant shall:
   a) be admitted to this University,
   b) satisfy at least one of the following:
      (i) have been admitted to the Faculty of Education,
      (ii) have been approved by the Office of Undergraduate Student Services.

2. To be eligible for the Diploma in Adult Teacher Education, a student shall complete a total of 30 credit hours in Education courses as follows: 2710, 2800, 2801, 2803, 2806, 2730 or 3430, 3440, 4450, two of 3280, 3210, 3801.

3. A maximum of 12 credit hours referred to in Section 2 above and which have already been counted toward a degree or diploma may also be counted toward the Diploma in Adult Teacher Education.

4. At least 21 of the credit hours required for the Diploma in Adult Teacher Education must be completed at this University.

5. From Section 2 above a maximum of 9 credit hours, completed before admission to the program or the Faculty, may be used as credit toward the Diploma in Adult Teacher Education.

6. Students in the Adult Teacher Education diploma program must have their courses and course sequence approved by the Office of Undergraduate Student Services.

7. The requirement for a specific course, or courses, may in special circumstances, and upon individual request, be waived by the Committee on Undergraduate Studies. Such waivers shall not reduce the total number of credits required for the Diploma.”

Page 279, 2004-2005 Calendar, under the heading Course Descriptions, subheading Legend, delete the entry “I: Courses for students on the TECHNOLOGY EDUCATION Program”

Page 279, 2004-2005 Calendar, under the heading Course Descriptions, delete “2250. Education Psychology (NS). (See Native and Northern section).”

Delete the course “2711” in its entirety and replace with the following:

“2711. Course Organization and Development in Technology Education (ISI). An examination of the development, structure and organization of technology education curriculum locally and internationally; applications of
design and problem solving instructional strategies; the management of
resources in technology education laboratories; the development of resource
units for teaching.

NOTE: Credit may be obtained for only one of Education 2711 and
Education 2710.”

Amend the course title for “2730” to read as follows:

“2730. General...(PS)...”

Delete the course “2750” in its entirety and replace with the following:

“2750. Introductory Design and Materials Processes (ISI). Theory and
practice of teaching problem solving, design and materials processes. Topics
and laboratory activities include production and computer assisted design.”

Delete the course “2751” in its entirety and replace with the following:

“2751. Introductory Communications and Power Technology (ISI).
Theory and practice of selected technical skills in communications, energy
and power and their practical application in a technology education
laboratory. Topics include micro-computer components, systems and
operations; communication networks; basic electronics; and control systems.”

Amend the prerequisite for the course “3040” to read as follows:

“Education 4350, 3543...”

Delete courses “3220” and “3230” in their entirety.

Insert:

“3280. Education Assessment (PS). (See course description in Post-
Secondary Education Section).”

Amend the course title for “3618” to read as follows:

“3618. Nature...(ME,PE).”

Amend the “NOTE” for course “3618” to read as follows:

“NOTE:...Education 3618, 2610...”

Amend the course title for “3619” to read as follows:

“3619. Nature...(ME,PE).”

Delete the prerequisite for the course “3620” in its entirety and replace with
the following:

“Prerequisite: Education 4242, 4240, or the former 3220 or 3230.”
Faculty of Education (cont’d)

Delete the prerequisite for the course “3640” in its entirety and replace with the following:

“Prerequisite: Education 4242, 4240, or the former 3220 or 3230.”

Delete the course “3690” in its entirety and replace with the following:

“3690. Collaborative Practice (SE). (See course description in Special Education Section.)”

Delete the course “3700” in its entirety.

Amend the course title for the course “3710” to read as follows:

“3710. Group...(PS).”

Amend the course title for the course “3720” to read as follows:

“3720. Individualized...(PS).”

Amend the course title for the course “3730” to read as follows:

“3730. Curriculum...(PS).”

Delete the course “3750” in its entirety and replace with the following:

“3750. Intermediate Design and Materials Processing Technology (ISI). Continuation of theory and practice of teaching technical skills and design processes developed in Education 2750. Topics elaborate on computer assisted design and problem solving with application of advanced construction techniques.”

Delete the course “3751” in its entirety and replace with the following:

“3751. Intermediate Communications and Power Technology (ISI). Continuation of theory and practice of technical skills in communications, power and energy developed in Education 2751. Topics include energy sources, control systems, graphic communication processes and electronic communications.”

Delete the prerequisite for the course “3940” in its entirety.

Delete the course “4164” in its entirety.

Amend the course title for the course “4240” to read as follows:

“4240. An Introduction...(IS,ISI,PE).”

Amend its “Note” to read as follows:

“...Education 4240, the former Education 3220...”
Amend the course title for the course “4242” to read as follows:

“4242. Identification...(IS,ISI,PE).”

Amend the course title for the course “4362” to read as follows:

“4362. Sociological...(PE,ME).”

Amend the course title for the course “4383” to read as follows:

“4383. Philosophy...(PE,ME).”

Delete the prerequisite for the course “4543” in its entirety and replace with the following:

“Prerequisite: Education 4242, 4240, or the former 3220, 3230 or equivalent.”

Delete the course “4720” in its entirety.

Delete the course “4750” in its entirety and replace with the following:

“4750. Integrated Materials and Production Processes (ISI). Theory and practice in selected advanced technical skills in materials processes applied in conjunction with mechanical and fluid power and their practical applications in the modern technology education laboratory setting. Topics include integrated design, digital and fluidic control, robotics systems, and computer assisted machine applications.”

Delete the course “4751” in its entirety and replace with the following:

“4751. Advanced Communications Systems (ISI). Theory and practice of selected advanced technical skills in communications technology as they apply to the modern technology education laboratory. Topics include development and utilization of computer networks; satellite, and various transmission technology found in communication processes.”

Delete the course “4752” in its entirety and replace with the following:

“4752. Technology Education, Specialized (ISI). Theory and practice involving selected technical skills and their practical application in the technology education laboratory. Topics include the applications and use of more advanced technological systems and processes and their integration into the school curriculum of Newfoundland and Labrador. NOTE: A modular approach will be used for each of the 21 technical skills credit hours. Students who can demonstrate competency in a particular module will be allowed to substitute another module in its place. Students must select the substitute module in consultation with the Office of Undergraduate Student Services.”
Faculty of Education (cont’d)

Amend the course title for the course “4901” to read as follows:

“4901. Effective...(PE,IS,ISI).”

Page 285, 2004-2005 Calendar, under the heading Student Teaching, delete the course “3700” in its entirety.

Page 286, 2004-2005 Calendar, amend the heading Waiver Guidelines of Education 3700, 4700, Post-Sessional Block, 401X to read as follows:

“WAIVER GUIDELINES OF EDUCATION 4700, POST-SESSIONAL BLOCK, 401X”

Under the heading Waiver Guidelines of Education 4700, Post-Sessional Block, 401X, delete clause 2) in its entirety and replace with the following:

“2) Students who have at least two years of Post-Secondary teaching experience, and who produce written reports from their former principal or other appropriate authority to the Office of Undergraduate Student Services, certifying the quality of their experience may be excused from Education 4700. Students who are excused from taking the student teaching course must substitute in its place an appropriate course in Education to make up the required total for the degree.”

Delete clause “4)” and renumber clause “5)” as clause “4)”

Under the heading Courses in Music Education, amend the course title for the course “2530” to read as follows:

“2530. Primary...(ME,PE).”

Add the following prerequisite to the course “2530” as follows:

“Prerequisite for Primary/Elementary program students: Completion of the focus area in Music.”

Page 287, 2004-2005 Calendar, under the heading Courses in Special Education, delete the course “3690” in its entirety and replace with the following:

“3690. Collaborative Practice (SE). This course examines the theoretical and practical aspects of collaborative practice within an interagency model of case planning for students with diverse learning needs. Emphasis is on exploring issues of power/empowerment, consultation, communication, conflict resolution/problem-solving, advocacy and collaboration. Perspectives of parents and families, educators, and community resource professionals will be explored. The course strives to create a family-focused approach to effective planning in contemporary schools.”

Under the heading Courses in Native and Northern Education, delete the course “4168” in its entirety.
Faculty of Education (cont’d)

Page 289, 2004-2005 Calendar, under the heading Courses in Post-Secondary Education, amend the course title for “2730” to read as follows:

“2730. General...(PS).”

Amend the course title for “3710” to read as follows:

“3710. Group...(PS)”

Amend the course title for “3720” to read as follows:

“3720. Individualized...(PS).”

Amend the course title for “3730” to read as follows:

“3730. Curriculum...(PS).”

Delete the section entitled Courses in Technology Education, in its entirety.

Page 291, 2004-2005 Calendar, delete the section entitled Institute in the Teaching of Computer Studies, in its entirety.

73.2 Department of French and Spanish

Page 169, 2004-2005 Calendar, under the heading French and Spanish, subheading Course List, amend the prerequisites for course “1502.” as follows:

“Préalables: Français 1501 avec une note minimale de 60% ou la ...
Prerequisites: French 1501 with a grade of at least 60% or ...”

Delete the prerequisites for course “2100.” in its entirety and replace with the following:

“Préalables: Français 1502 avec une note minimale de 60%.
Prerequisite: French 1502 with a grade of at least 60%.”

74. REPORT OF THE ACADEMIC COUNCIL OF THE SCHOOL OF GRADUATE STUDIES

74.1 Master of Employment Relations

Page 461, 2004-2005 Calendar, under the heading E) Program of Study, amend clause “1.” to read as follows:

“1. The MER program consists of 33 credit hours...these include 27 credit hours of compulsory courses and 6 credit hours...comprised of 18 credit hours of core...Table II and 9 credit hours for a research seminar.”

Amend clause “5.” to read as follows:

“...and completion of final report. The Research Seminar involves 3 credit hours of course work in each of the Fall, Winter and Spring semesters.”
Master of Employment Relations (cont’d)

Delete clause “7.” in its entirety and replace with the following:

“7. The prerequisites for EMRE 6030 are EMRE 6010 and EMRE 6020. In addition, students will normally complete six MER courses before registering for EMRE 6030. There are no prerequisites for EMRE 6010 and EMRE 6020 but students are advised to take these courses late in their programs, just before taking EMRE 6030. For the core courses, the prerequisite for BUSI 9329 is BUSI 8210. For the remaining core courses, there are no prerequisites. For the elective courses, departmental regulations that specify particular courses as prerequisites will apply but the departmental requirement to have completed a number of courses will not apply.”

Page 462, 2004-2005 Calendar, under the heading G) Courses, subheading Table I - Schedule of Courses, delete all references to “(2 credit hours)”.

74.2 Faculty of Education

Page 456, 2004-2005 Calendar, under the heading H) Specific Programs, under clause “1.b)ii)” add:

“E6469 Theoretical and Methodological Foundations of Action Research”

In clause “(iv)” amend second bullet to read as follows:

“...24 credit hours and the appropriate course option E6291 Internship in Educational Leadership Studies (6 credit hours), E6292 Project in Educational Leadership Studies (6 credit hours), or E6293 Paper Folio in Educational Leadership Studies (6 credit hours).”

Under the same heading, under clause “2.b)ii)” add the following to the bulleted list:

“E6469 Theoretical and Methodological Foundations of Action Research”

In the newly renumbered clause “vii” (as approved at a meeting held on October 12, 2004), amend second bullet to read as follows:

“...24 credit hours and the appropriate course option E6391 Internship in Curriculum, Teaching and Learning Studies (6 credit hours), E6392 Project in Curriculum, Teaching and Learning Studies (6 credit hours), or E6393 Paper Folio in Curriculum, Teaching and Learning Studies (6 credit hours).”

Page 458, 2004-2005 Calendar, under clause “b) Program Requirements”, delete bullet five “E6709 Assessment of Intelligence and Learning Skills” in its entirety.

Insert new bullet five as follows:

“E6700 Ethical and Legal Issues in Counselling”

Under clause “b)v.” delete the first bullet “E6700 Ethical and Legal Issues in Counselling”
Faculty of Education (cont’d)

After bullet “E6719 Cultural Issues in Counselling” insert the following new bullet:

“E6709 Assessment of Intelligence and Learning Skills
(Prerequisite: E3600 or its graduate equivalent to be developed. Normally, students in Counselling Psychology will not enroll in this course until the latter part of their program). Candidates intending to pursue a career in the K-12 school system in Newfoundland and Labrador are urged to take this course and the prerequisite.”

After bullet “E6802 Adult Learning and Development” insert the following new bullet:

“E6713 Educational Applications of Contemporary Cognitive Psychology”

Page 456, 2004-2005 Calendar, delete the section “E) Thesis or Report” in its entirety and replace with the following:

“E) THESIS

See School of Graduate Studies General Regulation J. Theses and Reports.”

Page 460, 2004-2005 Calendar, under the heading Courses, insert:

“6291. Internship in Educational Leadership Studies (6 credit hours)
6292. Project in Educational Leadership Studies (6 credit hours)
6293. Paper Folio in Educational Leadership Studies (6 credit hours)
6391. Internship in Curriculum Teaching and Learning Studies (6 credit hours)
6392. Project in Curriculum Teaching and Learning Studies (6 credit hours)
6393. Paper Folio in Curriculum Teaching and Learning Studies (6 credit hours)
6469. Theoretical and Methodological Foundations of Action Research
6913. Classroom Inquiry/Action Research [Prerequisite: 6469 Theoretical and Methodological Foundations of Action Research]”

74.3 Graduate Diplomas

Page 430, 2004-2005 Calendar, under the heading General Information and Regulations Governing All Graduate Students, amend the first paragraph to read as follows:

“...Fisheries Resource Management, Post Secondary Studies (Health Professional Education) and Post Masters Nurse Practitioner.”

Page 468, 2004-2005 Calendar, under the heading D) Programs of Study, delete the heading of clause “(IV)” and replace with:

“Post Masters Nursing Practitioner Graduate Diploma”
Graduate Diplomas (cont’d)

Page 578, 2004-2005 Calendar, under the subheading Diploma Programs - Graduate, delete “Health Professional Education” in its entirety and replace with the following:

“Post Secondary Studies (Health Professional Education)”

Page 579, 2004-2005 Calendar, under the subheading Graduate Studies, School of - Diploma Programs, delete “Health Professional Education” in its entirety and replace with the following:

“Post Secondary Studies (Health Professional Education)”

Page 580, 2004-2005 Calendar, delete “Health Professional Education (Diploma)” in its entirety and replace with the following:

“Health Professional Education (Diploma) SEE Post Secondary Studies (Health Professional Education) in INDEX”

Page 582, 2004-2005, under the subheading Post Secondary Education, insert:

“Graduate Diploma”

Under the same page, insert the following new listing:

“Post Secondary Studies (Health Professional Education)”

Page 577, 20042-005 Calendar, delete “Clinical Epidemiology Research (Diploma)” in its entirety and replace with the following:

“Clinical Epidemiology Research (Graduate Diploma)”

Under the same page, delete “Community Health (Diploma)” in its entirety and replace with the following:

“Community Health (Graduate Diploma)”

Page 581, 2004-2005 Calendar, delete “Nurse Practitioner, Post Masters (Diploma)” in its entirety and replace with the following:

“Nurse Practitioner, Post Masters (Graduate Diploma)”

Under the same page, under the subheading Nursing, School of - Diploma Programs, delete “Post Masters Nurse Practitioner (Diploma)” in its entirety and replace with the following:

“Post Masters Nurse Practitioner (Graduate Diploma)”

Page 431, 2004-2005 Calendar, under the heading General Regulations, subheading D) Program Requirements, under the subheading 8. Transfer of Course Credits, immediately following the new clause “d)” (as approved at a meeting held on November 9, 2004), insert:
Graduate Diplomas (cont’d)

“Affiliated Master’s programs for graduate diploma programs currently offered by the School of Graduate Studies are as follows:

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medicine</strong></td>
<td></td>
</tr>
<tr>
<td>Graduate Diploma in Clinical Epidemiology</td>
<td>Master of Science (Clinical</td>
</tr>
<tr>
<td>Research</td>
<td>Epidemiology)</td>
</tr>
<tr>
<td>Graduate Diploma in Community Health</td>
<td>Master of Science (Community Health)</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
</tr>
<tr>
<td>Graduate Diploma in Post Secondary Studies</td>
<td>Master of Education (Post Secondary</td>
</tr>
<tr>
<td>(Health Professional Education)</td>
<td>Studies)</td>
</tr>
<tr>
<td><strong>Marine Studies</strong></td>
<td></td>
</tr>
<tr>
<td>Graduate Diploma in Fisheries Resource</td>
<td>Master of Marine Studies</td>
</tr>
<tr>
<td>Management</td>
<td>(Fisheries Resource Management)</td>
</tr>
</tbody>
</table>

In the Calendar, insert the word “graduate” in front of the word “diploma” to ensure there is a differentiation between undergraduate and graduate diplomas for the current calendar entries governing graduate diplomas; and also in the new General Regulations governing graduate diplomas (as approved at a meeting held on November 9, 2004).

74.4 Master of Employment Relations - Regulation B)3

It was moved by Dean Jablonski, seconded by Dean Gorman, and carried that the following calendar change be approved noting the addition of the phrase “with an acceptable score” in line 13.

Page 460, 2004-2005 Calendar, under the heading Regulations Governing the Degree of master of Employment Relations, subheading B) Qualifications for Admission, delete clause “3.” in its entirety and replace with the following:

“3. In exceptional cases, applicants who have not completed an undergraduate degree, but who meet all other requirements, may be considered for admission. Preference will be given to those who have a minimum of 10 years of full-time professional experience, including demonstrated success in employment relations, and who have successfully completed substantial university coursework including several courses at an advanced undergraduate level from an institution recognized by Senate. Applicants without an undergraduate degree must have completed one or more undergraduate courses in organizational behavioural and microeconomics, from an institution recognized by Senate, with a minimum
Master of Employment Relations - Regulation B)3 (cont’d)

B standing in each course. Any applicants who do not meet normal admission requirements, may also be required to successfully complete the GMAT or the GRE with an acceptable score and/or additional undergraduate courses before being considered for admission.”

75. STUDENT APPEAL

ECS 2004-05: #9 - This is an appeal against the decision of the Senate Committee on Undergraduate Studies and the Executive Committee of Undergraduate Studies, Faculty of Engineering and Applied Science, to deny the student permission to register for Engineering 6871 and 6843 during the Fall Semester 2004 and to deny the student’s supplementary requests.

Because of their previous involvement with this case, Dr. Gosine, Dr. Peters, and Dr. Quaicoe excused themselves from the portion of the meeting relating to this student appeal.

The student’s appeal was originally considered and denied by the Executive Committee of Undergraduate Studies of the Faculty of Engineering and Applied Science. The student then appealed to the Senate Committee on Undergraduate Studies and at a meeting held on November 4, 2004, that Committee considered the appeal and found that the procedure used by the Faculty of Engineering and Applied Science was fair and agreed that the student be denied permission to register for Engineering 6871 and 6843 during the Fall Semester 2004. The Senate Committee on Undergraduate Studies also denied the student’s request for permission to advocate in person at the Committee meeting and the request to have the opportunity to review and respond to any material submitted to that Committee by the Faculty of Engineering and Applied Science.

In a letter dated January 19, 2005, to the Executive Committee of Senate, the above-noted student requested the following:

- Due to the challenges of the student’s learning disability, he/she requested permission to present the details of his/her learning disabilities in person. The student also requested that a strong advocate knowledgeable of learning disabilities represent him/her.

- The student requested that the Faculty of Engineering and Applied Science evaluate and release the marks for Engineering 6871 to the Committee.

- The student alleged that the Faculty of Engineering submitted inaccurate information to the Senate Committee on Undergraduate Studies regarding appeals lodged by him/her in both Fall 2003 and Fall 2004 and the student requested an opportunity for him/her to review and respond to all information and responses submitted by the Faculty.

- The student requested that an ad-hoc Committee be struck to investigate the complaints made in the student’s appeals.
Student Appeal (cont’d)

In view of the rather complex issues surrounding this appeal which lend themselves to closer scrutiny by an ad hoc Committee, the Executive Committee of Senate agreed to recommend to Senate that an ad hoc committee be appointed to review the appeal from the above-noted student.

In the event that Senate agreed with the appointment of an ad hoc committee, the Committee on Committees was asked to recommend membership and terms of reference for an ad hoc committee.

It was moved by Dr. Clark, seconded by Mr. Collins and carried to accept the recommendation of the Executive Committee that an ad hoc Committee be appointed to consider this case and report back to Senate. The membership and terms of reference for the ad hoc committee to review the student appeal of ECS 2004-05: #9 as recommended by the Committee on Committees are as follows:

Terms of Reference

This Senate ad hoc Committee has been struck to consider the appeal of student case ECS 2004-05: #9. This student’s earlier appeal for permission to register for Engineering 6871 and 6843 in the 2004 Fall Semester and the student’s associated requests were denied by the Executive Committee of Undergraduate Studies, Faculty of Engineering and Applied Science, and by the Senate Committee on Undergraduate Studies. The ad hoc Committee:

a. Will examine all documents submitted by the student in support of the appeal;
b. May examine any other written evidence which it deems relevant;
c. Will interview the student;
d. May interview any individuals, organizations or institutions it deems relevant;
e. May conduct further investigations as the committee deems necessary, and
f. Will deal with this case by filing its report and recommendations to Senate as expeditiously as possible.

Membership

Robert Adamec (Psychology)
Patricia Canning (Education)
Elizabeth Hillman (Registrar’s Office)
Karen Hollett (Faculty Relations)
Undergraduate Student (to be nominated by MUNSU)

APPEALS TO SENATE

ECS 2004-05: #8 - This is an appeal against the decision of the Executive Committee of Senate, the Senate Committee on Undergraduate Studies and the Marine Institute Committee on Undergraduate Studies, to deny the student’s request to be exempt from completing Technology 4020 or Engineering 4102.
Appeals to Senate (cont’d)

Following careful consideration of this student case, and noting the earlier advice given to this student, it was agreed to uphold the decision of the Executive Committee of Senate, the Senate Committee on Undergraduate Studies and the Marine Institute Undergraduate Studies Committee that the student’s appeal for exemption from Technology 4020 or Engineering 4102 be denied. Senate reiterated the view that since Technology 4020 is a core required course for the degree program, it may not be replaced by an elective, and therefore, the student will be required to complete either Technology 4020 or Engineering 4102.

ECS 2004-05: #5 - This is an appeal against the decision of the Executive Committee of Senate regarding the grade of 68% received in Chemistry 6204 in the 2004 Winter Semester first considered by Senate on November 9, 2004. The student has now submitted a letter withdrawing his appeal since he has been given permission by the Department of Chemistry to rewrite the exam in Chemistry 6204.

76. REMARKS FROM THE CHAIR - QUESTIONS/COMMENTS FROM SENATORS

The following is a summary of the remarks made by the Chair:

• The President noted that the government’s White Paper document on Post-Secondary Education is scheduled to be released before the end of March, 2005. Dr. Meisen emphasized the importance of this document for the University and the Province and he encouraged all Senators to make their views known on this topic.

• The President noted that he made two recent visits to Corner Brook, the first for community functions on January 10, 2005 and the second for the Board of Regents’ meetings on February 1-2, 2005. On the morning of February 1, the Board of Regents was given a presentation by officials from the Marine Institute on Vision 2020. On the morning of February 2, the focus of the Board meeting was on topics relevant to Sir Wilfred Grenfell College.

• From January 20-26, 2005, the President attended meetings with representatives of the Waterford Institute of Technology regarding expansion of collaboration in Newfoundland Studies and business development. Dr. Meisen noted that the new Coracle fellowship and Roundtable Program will also be announced.

• From January 20-26, 2005, the President also attended meetings with University College Cork (UCC), the Irish Naval Service and the Marine Institute regarding large collaborative projects in seabed imaging, projects which have high priority for our provincial Government.

• The President thanked all those involved in the Atlantic Accord presentation and panel discussion given on February 2, 2005, particularly Dr. Wade Locke who gave a long presentation on this very complex issue. Dr. Meisen noted that this is a good example of where the University can make a contribution to the larger community’s understanding of a very public debate.
77. ADJOURNMENT

The meeting adjourned at 5:30 p.m.

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CHAIRMAN SECRETARY