

MEMORIAL UNIVERSITY OF NEWFOUNDLAND SENATE

The regular meeting of Senate was held on February 11, 2003, at 4:00 p.m. in Room E5004, Education Building.

54. PRESENT

Dr. E. Simpson (Acting Chair), Professor A. Fowler, Interim Dean A. Collins, Dr. S. Birnie-Lefcovitch, Dean D. Graham, Dean G. Gorman, Mr. G. Collins, Dr. T. Gordon, Dr. L. Hensman, Dr. C. Higgs, Dean C. Jablonski, Dean R. Lucas, Dr. C. Orchard, Mr. L. O'Reilly, Ms. D. Whalen, Dr. R. Adamec, Dr. J. Ashton, Professor P. Ayres, Dr. D. Buell, Mr. C. Couturier, Mr. E. Durnford, Dr. R. Gosine, Professor M. Hackett, Professor V. Kuester, Ms. K. Lippold, Dr. M. Mulligan, Dr. H. Pike, Ms. D. Rehner, Dr. V. Richardson, Dr. D. Rideout, Dr. F. Shahidi, Dr. C. Sharpe, Dr. K. St. John, Dr. D. Thompson, Professor D. Walsh, Dr. B. Watson, Dr. M. Wernerheim, Dr. S. Wolinetz, Dr. J. Wright, Mr. S. Sullivan, Mr. J. Jacobs, Ms. C. Powell, Mr. G. Salam, Mr. M. Spencer, Ms. M. Ivany, Ms. A. Goodman.

55. APOLOGIES FOR ABSENCE

Apologies were received from The President, Dr. S. Algoo Baksh, Ms. G. Bell, Mr. R. Ellis, Dr. J. Harris, Dr. D. Kimberley, Dr. C. Loomis, Dr. D. McKay, Dr. D. Neville, Dr. W. Schipper, Dean L. Walker, Dr. J. Wyse.

The Acting Chair opened the meeting by extending a special welcome to the newly appointed undergraduate student Senators:

Ms. Andrea Goodman Undergraduate Student

Ms. Melissa Ivany Undergraduate Student

56. MINUTES

The Minutes of the regular meeting held on January 14, 2003, were taken as read and confirmed.

57. Report of the Senate Committee on Undergraduate Studies

57.1 School of Nursing

Page 355, 2002-2003 Calendar, under heading Course List, amend the prerequisite for Nursing 4101 to read as follows: "Prerequisite: N3520, N3521, N3522, or admission to the Fast Track Option."

57.2 Marine Institute

Page 82, 2002-2003 Calendar, under the heading Bachelor of Technology Degree, subheading General Notes, delete clause "c" in its entirety and replace with the following:

"c) Major Options

- Students will register in one of two options to complete their program.
- Students with an Engineering/Applied Science Technology Diploma will normally follow the program described under the Engineering and Applied Science Technology Option.
- Students with a Health Sciences Technology Diploma will normally follow the program described under the Health Sciences Technology Option. The Health Sciences Technology Program is required for students who wish to follow certain career paths.
- Students may be permitted to change their option with the approval of the Marine Institute Undergraduate Studies Committee upon the recommendation of the Program Committee."

Page 82, 2002-2003 University Calendar, under the heading Bachelor of Technology Degree, subheading Degree Regulations, delete the first paragraph and replace with the following:

"To be awarded the degree of Bachelor of Technology, a candidate shall successfully complete a 39 credit hour program with a minimum overall average of 60% and a minimum of 50% in each course required for the degree."

Page 82, 2002-2003 University Calendar, under the heading Bachelor of Technology Degree, after the entry for "Degree Regulations", delete the remainder of the program in its entirety and replace with the following:

"PROGRAM OF STUDY

1. ENGINEERING AND APPLIED SCIENCE TECHNOLOGY OPTION

Students enrolled in the Engineering and Applied Science Option of the Bachelor of Technology program must complete the following core courses in addition to five electives chosen from Group A and Group B. At least one elective must be chosen from each of Group A and Group B.

Core courses:

All students enrolled in the Engineering and Applied Science Option of the Bachelor of Technology program must complete the following courses:

- Six credit hours in First Year English.
- Business 1000. Introduction to Business
- Business 2301. Organizational Behaviour
- Technology 4100. Technical Project and Report I (1 credit hour)
- Technology 4200. Technical Project and Report II (2 credit hours)
- Technology 4010. Assessment and Implementation of Technology
- Mathematics/Statistics 2500. Statistics for Business and Arts Students
- One of: Engineering 4102. Engineering Economics, or Technology 4020. Economic Management for Technologies.

Group A *At least one elective must be chosen from this group.*

- Business 1201. Principles of Marketing
- Business 1600. Introduction to Entrepreneurship
- Business 2102. Introductory Accounting for Non-Business Students
- Business 3320. Introduction to Labour Relations
- Business 3700. Information Systems
- Business 4000. Business Law I
- Business 6320. Advanced Labour Relations
- Economics 3360. Labour Market Economics
- One of: Business 4320. Introduction to Personnel and Human Resource Management, or Psychology 3501. Industrial Psychology

Group B *At least one elective must be chosen from this group.*

- Economics 2010. Introduction to Microeconomics I
- Economics 2020. Introduction to Macroeconomics
- Economics 3080. Natural Resources and Environmental Economics
- Geography 4410. Research Seminar in Resources
- History 3660. The Scientific Revolution
- Religious Studies 3830. Religion, Science and Technology
- Sociology 2120. Technology and Society
- Sociology/Anthropology 3220. Work and Society
- Sociology/Anthropology 3317. Oil and Society
- Sociology/Anthropology 4091. Oil and Development
- Women's Studies 4107. Women and Technological Change

2. HEALTH SCIENCE TECHNOLOGY OPTION

Students enrolled in the Health Science Option of the Bachelor of Technology program must complete the following core courses in addition to six electives chosen from Group A, Group B and Group C. At least one elective must be chosen from each of Group A, Group B and Group C.

Core courses:

- Six credit hours in First Year English
- Business 1000. Introduction to Business
- Business 2301. Organizational Behaviour
- Technology 4100. Technical Project and Report I (1 credit hour)
- Technology 4200. Technical Project and Report II (2 credit hours)
- Nursing 4002. Introduction to Nursing Research: Methodology and Critique
- Nursing 5210. Health Care Systems

Group A *At least one elective must be chosen from this group.*

- Business 1201. Principles of Marketing
 - Business 1600. Introduction to Entrepreneurship
 - Business 2102. Introductory Accounting for Non-Business Students
 - Business 3320. Introduction to Labour Relations
 - Business 3700. Information Systems
 - Business 4000. Business Law I
 - Business 6320. Advanced Labour Relations
 - Economics 3360. Labour Market Economic
 - One of: Business 4320. Introduction to Personnel and Human Resource Management, or Psychology 3501. Industrial Psychology
- Group B** *At least one elective must be chosen from this group.*
- Economics 2010. Introduction to Microeconomics I
 - Economics 2020. Introduction to Macroeconomics
 - Economics 3080. Natural Resources and Environmental Economics
 - Geography 4410. Research Seminar in Resources
 - History 3660. The Scientific Revolution
 - Religious Studies 3830. Religion, Science and Technology
 - Sociology 2120. Technology and Society
 - Sociology/Anthropology 3220. Work and Society
 - Sociology/Anthropology 3317. Oil and Society
 - Sociology/Anthropology 4091. Oil and Development
 - Sociology/Anthropology 4206 Current Issues in Technology, Culture and Society
 - Women's Studies /Sociology/Anthropology 4107 Women and Technological Change

Group C *At least one elective must be chosen from this group.*

- One of: Psychology 2010. The Psychology of Human Development I, or Psychology 2011. The Psychology of Human Development II, or Psychology 2012. The Psychology of Human Development III
- Psychology 2800. Drugs and Behaviour
- Nursing 3023. Counselling
- Nursing 4701. Current Concepts in Pathophysiology
- Sociology 2110. Economy and Society
- One of: Biology 2040. Modern Biology and Human Society I, or Biology 2041. Modern Biology and Human Society II

COURSE DESCRIPTIONS

Technology 4100. Technical Project and Report I requires the student to identify a research topic in a specialty area, write a concept paper and develop a proposal to be carried out in Technology 4200. In addition, the course offers an opportunity to improve time management, critical thinking, project management, problem solving, and reading/writing skills as related to the research process.

Prerequisite: Admission to the Bachelor of Technology Program.

This is a 1 credit hour course.

NOTE: Students may not receive credit for both Technology 4000 and Technology 4100/4200.

Technology 4200. Technical Project and Report II provides a link between the other courses of the program and the technical component from the diploma program. Students will carry out an in-depth study of the topic identified in Technology 4100. Students will fully document and present their findings through the writing of a formal technical report.

Prerequisite: Technology 4100.

This is a 2 credit hour course.

NOTE: Students may not receive credit for both Technology 4000 and Technology 4100/4200.

Technology 4010. Assessment and Implementation of Technology examines the effects of technology on the physical, socio-economic, historic, cultural and aesthetic environments. The course also addresses relevant legislation, the generation and evaluation of project/product alternatives, and the prediction, verification and mitigation of technological effects.

Prerequisite: Admission to the Bachelor of Technology Program.

Technology 4020. Economic Management for Technologists provides an introduction to the economics of technological projects. Students will study the mathematics of money, cost composition, and project evaluation, including cost comparison. They will also learn to analyze projects for decision making, including risk assessment and replacement analysis. In addition, they will learn to use suitable criteria for project selection, and to conduct sensitivity analysis.

Prerequisite: Admission to the Bachelor of Technology Program or the Bachelor of Maritime Studies Program.

NOTE: Students may not receive credit for both Engineering 4102 and Technology 4020.

Technology 4030. Technology in the Human Context examines technology in the historical context and technology in the modern era. Students will discuss human insights, innovation, the interactions between development and technology transfer, ethics and professionalism and how to develop a technology value system.

Technology 4040. Project Management for Technologists will introduce the student to the interdisciplinary field of project management. The course covers the interpersonal skills necessary to successfully lead or work effectively within a project team as well as

providing an overview of certain planning and scheduling tools and techniques necessary for the planning and monitoring of projects."

Page 81, 2002-2003 University Calendar, under the heading Bachelor of Maritime Studies, under the heading 3. Degree Regulations, under clause "1." delete:

"Maritime Studies 4000. Technical Report"

Replace with:

"Maritime Studies 4100. Technical Project and Report I"

"Maritime Studies 4200. Technical Project and Report II"

Immediately preceding clause "3.2., insert:

"Technology 4030. Technology in the Human Context

Technology 4040. Project Management for Technologists"

57.3 Faculty of Business Administration

During discussion of this proposal to allow direct entry to the Bachelor of Commerce (Co-operative) and the Bachelor of Business Administration programs directly from high school, there was a wide ranging discussion on the advantages and disadvantages of direct entry versus the more general first year of education which has been in place at Memorial for some years.

Page 410, 2002-2003 Calendar, delete the entire entry from Philosophy of the Business Administration Programs to Regulations for the Honours Degree of Bachelor of Commerce (Co-operative) inclusive, and replace with the following:

"PHILOSOPHY OF THE BUSINESS ADMINISTRATION PROGRAMS

The Business Administration Programs are designed to provide students with a liberal business education and to prepare students for a creative role in business. The objectives of the program are to provide the graduate with:

- a working knowledge of the functional areas of an organization,
- a capacity for self development,
- a high level of communication skills,
- the ability to identify and analyze problems and opportunities and collect the relevant data pertinent to these,
- a sensitivity to human interrelationships,

- an awareness of subtle interplay of influence, persuasion and power in organizations,
- an ability to recognize and respond to change,
- an ability to apply skills to a variety of situations,
- a sensitivity to the social, cultural and governmental environment.

The program leading to the Degree of Bachelor of Commerce (Co-operative) is set up to provide the student with a combination of academic terms or semesters and full-time work terms in the business environment. These work terms are arranged with the full co-operation of business firms and government enterprises and are supervised. They are designed to provide the student with the opportunity to weld theory and practice and to provide a broader preparation for a work career.

The business environment is becoming ever more complex. The program, therefore, recognizes that it is not enough to give the student theoretical and technical training only. By being exposed, as early as possible, to the environment in which he/she will eventually work, the student will be better able to appreciate that most work is accomplished and goals are achieved by working with and through people operating in a social and organizational setting. Such exposure will also aid the students in defining their own career interests and objectives.

The program leading to the Diploma in Business Administration and the Degree of Bachelor of Commerce is specifically designed to meet the needs of individuals who hold full- or part-time employment and who wish to complement their work experience with theoretical and practical training in business administration. The program provides such individuals with an opportunity to develop the abilities and to acquire the tools needed to deal with a changing work environment.

The program leading to the Degree of Bachelor of Business Administration permits students to combine core studies in the management area with interests in other fields. To that end, students who are enrolled in this program may complete a minor in the faculties of Arts or Science (or other areas with permission) or one of the minors offered at the Sir Wilfred Grenfell College.

REGULATIONS FOR BUSINESS MINOR

1) Students who are completing degrees in the Faculties of Arts and/or Science may complete a minor in Business Administration.

2) Students who wish to undertake the Business minor program must have completed a minimum of ten courses. Application is made in the space provided on the Change of Academic Program Form, which must then be approved by the Dean of the Faculty of Business Administration, or delegate. Admission into the minor program is selective: at the time of application a student must have a cumulative average of at least 65%.

3) A minor in Business Administration shall consist of 24 credit hours comprising the following courses: Business 1000, 1101, 1201, 2301, 4000, 4500, and two courses chosen from Business 1600, 2101, 2201, 3101, 3320, 3700, and 4320.

4) Course prerequisites to all Business courses shall apply to a Business minor. Students should note, for example, that the prerequisites for Business 4500 are Business 1101, Statistics 2500 and Economics 2010. It should be noted that some courses are not offered every semester.

GENERAL NOTES

1) The Office of the Registrar and the Faculty of Business Administration will assist students with any questions or problems which might arise concerning the interpretation of academic regulations. It is, however, the responsibility of students to see that their academic programs meet the University's regulations in all respects.

2) No student shall obtain more than one undergraduate degree from the Faculty of Business Administration.

3) The Committee on Undergraduate Studies, Faculty of Business Administration, may recommend that transfer credit for certain Business courses be awarded on the basis of successful completion of professional courses that lead to a professional designation (e.g. C.A., C.G.A., C.M.A.). Applications for transfer credit should be made through the Office of the Registrar.

4) The Faculty of Business Administration may approve that credit for certain Business courses successfully completed through Memorial University's former Extension Services Division be granted upon application to the Registrar for transfer credit evaluation.

APPEALS PROCEDURES

All of the regulations for business programs (a) to (h) are subject to appeal. Appeals must be made in writing to the Chairperson, Committee on Undergraduate Studies, Faculty of Business Administration and must clearly outline the grounds for the appeal.

REGULATIONS FOR THE GENERAL DEGREE OF BACHELOR OF COMMERCE (CO-OPERATIVE)

ADMISSION MODES AND REQUIREMENTS

Direct Entry (for High School Students)

Students may apply for admission into first year of the Bachelor of Commerce (Co-operative) program (Terms A/B) directly from high school by indicating this in the appropriate place on their General Application For Admission to Memorial University.

Direct entry from high school is subject to the applicant's final acceptance to the University and admissibility into either Mathematics 1000 or 1090. Terms A/B normally starts in September.

Advanced Standing (for Current Memorial Students)

1) Students may apply for admission with Advanced Standing into terms beyond Terms A/B up to and including Term 4. Students applying for admission to a term beyond Terms A/B must have completed all of the courses required in the program up to that term, including the courses required in Terms A/B, with grades high enough to have met promotion requirements. Students applying for admission with advanced standing must complete and submit to the Registrar's Office the Application For Admission to the Faculty of Business Administration, normally on or before the deadlines specified in the University Diary for the semester in which they intend to begin their program.

2) Admission with Advanced Standing is competitive and selective. Prospective students are therefore encouraged to consider an alternate degree program in the event that they are not accepted into the Bachelor of Commerce (Co-operative) program.

3) The primary criterion used in reaching decisions on applications for admission with advanced standing is overall academic achievement. Selection, therefore, will be based on a student's **overall** academic performance. Students with weak overall academic records are unlikely to be admitted.

Transfers From Other Post-Secondary Institutions

1) Students who are transferring from other universities must apply for admission to the University on or before the deadlines specified in the University Diary for the semester in which they intend to begin their program, to allow sufficient time for the evaluation of transfer credits. Subject to items 2) and 3) under **Advanced Standing (for Current Memorial Students)** above, transfer students from other universities will be placed in that Term of the program judged by the Admissions Committee of the Faculty to be appropriate considering equivalent credits. Regardless of the Term into which they are admitted, transfer students must complete a minimum of two work terms.

2) Subject to items 2) and 3) under **Advanced Standing (for Current Memorial Students)** above, graduates of a three-year community college business diploma program may be considered for admission into Term 3. Space for Term 3 admissions is limited and competitive and admission decisions will be based on overall academic performance. Specific course requirements will be determined on an individual basis at the time of admission.

THE CURRICULUM

1) Every candidate shall complete nine academic terms in the Co-operative Program and shall normally be required to complete three work terms. The 141 academic credit hours

are distributed as follows: 30 credit hours over the course of Terms A/B, 18 credit hours in each of Terms 1 and 2, and 15 credit hours in each of Terms 3 through 7.

2) Students who have been admitted to the Bachelor of Commerce (Co-operative) program must complete courses in academic terms or "blocks" in the sequence, order and course load as set out in Table I - Academic Course Program - The Co-operative Business Administration Program. Academic and Work Terms shall be taken in the sequence as set out in Table II - Plan of Operation - The Co-operative Business Administration Program. Exceptions to this prescribed program, including specified course load, must have the approval of the Admissions Committee or of the Committee on Undergraduate Studies of the Faculty.

3) By the end of the Winter Semester of their first year, Terms A/B students must have successfully completed the following 30 credit hours:

- a) Six credit hours in English courses*;
- b) Mathematics 1000;
- c) Economics 2010 and 2020;
- d) Business 1000;
- e) Twelve additional credit hours in non-Business courses, at least 9 credit hours of which must be in courses chosen from the Faculties of Arts and/or Science** and/ or the School of Music.

* It is strongly recommended that students complete English 1110, Comprehension, Writing and Prose Style, as one of these English courses.

** Students who wish to complete the joint degrees of Bachelor of Arts and Bachelor of Commerce (Co-operative) [see entry immediately following THE CURRICULUM below] are strongly advised to include courses in a second language and courses in the subject of the intended Major program. Students who wish to complete the joint degrees of Bachelor of Commerce (Co-operative) and Bachelor of Science in Computer Science [see entry immediately following JOINT DEGREES OF BACHELOR OF COMMERCE (CO-OPERATIVE) AND BACHELOR OF ARTS below] must complete Computer Science 1700, three more credit hours in Mathematics and are strongly advised to complete three additional credit hours in Science electives.

4) The usual curriculum of courses and work terms beyond the 30 credit hours required in Terms A/B is as follows:

- a) Computer Science 2801
- b) Statistics 2500
- c) Economics 3150
- d) Fifty-one credit hours in core Business Administration courses
- e) Thirty credit hours in elective Business Administration courses, including non-Business courses prescribed for a concentration
- f) Twenty-one credit hours in non-Business courses, at least fifteen of which must be in

courses chosen from the Faculties of Arts and/or Science and/or the School of Music.
g) Three work terms of four months duration each.

Unspecified credits may not be used to fulfil the requirements outlined in a), b), c), d), and g) above.

5) Notwithstanding clauses 2) and 4) and General Academic Regulation (Undergraduate) 1.1.3, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.

6) The need for a specific course(s) or work term requirement may be waived by the Committee on Undergraduate Studies of the Faculty for students who apply for exemption from the course(s) or work term requirement in question.

NOTE: Students should also refer to the General Regulations of the University.

JOINT DEGREES OF BACHELOR OF COMMERCE (CO-OPERATIVE) AND BACHELOR OF ARTS

Any student who is admitted into the Bachelor of Commerce (Co-operative) program may simultaneously complete the requirements for a Bachelor of Arts program. Under those circumstances, regulations for the Bachelor of Commerce (Co-operative) program will be relaxed as follows. Notwithstanding clauses 4) e) and 4) f) of "The Curriculum" above, students in the Bachelor of Commerce (Co-operative) program who are concurrently completing the Bachelor of Arts degree will be permitted to make the following adjustments to those clauses:

e) No fewer than 15 credit hours, but no more than 30 credit hours, in Business electives, including non-Business courses prescribed for a concentration.

f) No fewer than 21 credit hours, but no more than 36 credit hours, in elective courses chosen from the Faculty of Arts.

THESE ADJUSTMENTS TO THE NORMAL CURRICULUM WILL ONLY BE PERMITTED FOR STUDENTS WHO ARE GRADUATING WITH THE BACHELOR OF COMMERCE (CO-OPERATIVE) DEGREE AND THE BACHELOR OF ARTS DEGREE AT THE SAME CONVOCATION. In order to meet all of the requirements of both degree Programs at the same time, students who are completing the joint degrees are strongly advised to follow the Bachelor of Commerce (Co-operative) Curriculum (Completed jointly with the Bachelor of Arts), Table 3 on page ***.

JOINT DEGREES OF BACHELOR OF COMMERCE (CO-OPERATIVE) AND BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Any student who is admitted into the Bachelor of Commerce (Co-operative) program may simultaneously complete the requirements for a Bachelor of Science in Computer

Science degree. Under those circumstances, regulations for the Bachelor of Commerce (Co-operative) program will be relaxed as follows. Notwithstanding clauses 4) a), e) and f) of "The Curriculum" above, students in the Bachelor of Commerce (Co-operative) program who are concurrently completing the Bachelor of Science in Computer Science degree will be permitted to make the following adjustments to those clauses:

a) Computer Science 2801 will not be required.

e) No fewer than 15 credit hours, but no more than 30 credit hours, in Business electives, including non-Business courses prescribed for a concentration.

f) No fewer than 21 credit hours, but no more than 36 credit hours, in elective courses chosen from the Faculty of Science.

THESE ADJUSTMENTS TO THE NORMAL CURRICULUM WILL ONLY BE PERMITTED FOR STUDENTS WHO ARE GRADUATING WITH THE BACHELOR OF COMMERCE (CO-OPERATIVE) DEGREE AND THE BACHELOR OF SCIENCE DEGREES AT THE SAME CONVOCATION. In order to meet all of the requirement of both degree Programs at the same time, students who are completing the joint degrees are strongly advised to follow the Bachelor of Commerce (Co-operative) Curriculum (Completed jointly with the Bachelor of Science in Computer Science), Table IV on page ***.

MINOR OR COGNATE FROM ANOTHER ACADEMIC UNIT

1) A student enrolled in the Bachelor of Commerce (Co-operative) program may, using all of the non-Business electives required in the curriculum, complete a minor within the Faculty of Arts, the Faculty of Science, the School of Music, or offered at Sir Wilfred Grenfell College. Regulations for the minor are given under the Calendar entries for the Faculty of Arts, the Faculty of Science, and the School of Music, and under the Calendar entry for Sir Wilfred Grenfell College.

2) A student enrolled in the Bachelor of Commerce (Co-operative) program may pursue a minor (or equivalent) in other non-business academic units (where minor program exist) with i) permission of that academic unit and ii) permission of the Undergraduate Studies Committee of the Faculty of Business Administration.

EXAMINATION AND ADVANCEMENT

1) The Faculty Council of the Faculty of Business Administration constitutes the examining body for all examinations in Business courses. In addition, the standing of every student will be assessed by the Committee on Undergraduate Studies in accordance with the promotion requirements outlined in Clauses 2, 3, and 8 below.

2) Students in Terms A/B will be considered for promotion to Term 1 at the end of the Winter Semester of their first year. At that time, for promotion from Terms A/B, students

must have successfully completed the 30 credit hours prescribed in 3) of **THE CURRICULUM** above, with an overall average on those 30 credit hours of at least 65%. Students who do not satisfy these requirements will be required to withdraw from the program and will not be promoted to Term 1.

Students who have been required to withdraw following Terms A/B may be considered for re-admission to the program in accordance with the entry under **ADMISSION MODES AND REQUIREMENTS** above, with the heading **Advanced Standing (for Current Memorial Students)**.

A required withdrawal for failure to meet the promotion requirements from Terms A/B **will not** be reflected on a student's transcript.

3) For promotion from each of Terms 1 through 7, the requirements are the achievement of a passing grade in at least 12 credit hours and an overall average of at least 60% in those courses required in each academic term.

Students in an academic term who do not maintain the appropriate course load as outlined in Clause 2 of "The Curriculum," with the approval of the Undergraduate Studies Committee, will be required to withdraw from the program and will not be promoted.

Students completing Terms 1 through 7 who fail to achieve these standards will be required to withdraw from the program. A required withdrawal from any of Terms 1 through 7 **will** be reflected on a student's transcript.

Students who have been required to withdraw following any one of Terms 1 through 7 may be considered for re-admission after the lapse of two semesters, at which time they will normally be required to repeat the term which they failed, unless, in the opinion of the Admissions Committee, Faculty of Business Administration, a more meaningful course of study would be appropriate.

In order to be considered for re-admission, students must formally apply for re-admission to the program not later than the deadlines specified in the University Diary for the semester in which they wish to recommence their program.

4) The Undergraduate Studies Committee of the Faculty of Business Administration may promote a student notwithstanding promotion requirements listed in Clause 3 above. A decision of this nature will be made only for reasons acceptable to the Undergraduate Studies Committee, and in the case of a student thought likely to succeed in future terms.

5) Work terms are scheduled in the "Plan of Operation - The Co-operative Business Administration Program". The dates for starting and finishing each work term are shown in the University Diary.

Successful completion of the work term requirements is a prerequisite to graduation.

6) A competition for work term employment is organized by Business Co-operative Education.

Students may obtain their own work term jobs outside the competition. Such jobs must be confirmed by letter from the employer and approved by Business Co-operative Education on or before the first day of the work period.

By entering the competition, students give permission for Business Co-operative Education to supply their university transcripts to potential employers.

7) A work report on a topic approved by Business Co-operative Education must be submitted for each work term. This report must be approved by the employer and submitted to Business Co-operative Education on or before the deadline scheduled by Business Co-operative Education. Evidence of the student's ability to gather material relating to the report, analyze it effectively, and present it in a clear, logical and concise form, will be required in the report. Late reports will not be graded unless prior permission for a late report has been given by Business Co-operative Education.

8) The overall evaluation of the work term is the responsibility of Business Co-operative Education. The work term shall consist of two components:

Student performance as evaluated by a co-ordinator, given input from the employer, and a work report graded by a co-ordinator or a member of faculty.

Evaluation of the work term will result in the assignment of one of the following final grades:

a) *Pass with Distinction*: Indicates **EXCELLENT PERFORMANCE** in **BOTH** the work report and work performance. The student is commended for his/her outstanding performance in each of the required components; pass with distinction has been awarded to each of the work report and work performance.

b) *Pass*: Indicates that **PERFORMANCE MEETS EXPECTATIONS** in both the work report and work performance. The student fully meets the requirements of a passing work report and completely satisfactory work term performance.

c) *Fail*: Indicates **FAILING PERFORMANCE** in the work report and/or the work performance.

For promotion from the work term, a student must obtain *PASS WITH DISTINCTION or PASS*.

If a student fails to achieve the standards outlined above, the student will be required to withdraw from the program and may be considered for re-admission after the lapse of two semesters, at which time the student will be required to complete a further work term

with satisfactory performance before being admitted to any further academic term in the Faculty.

9) A student who has been required to withdraw from the program as a result of failing to meet the requirements of either two academic terms or two work terms will not be eligible for re-admission to the program.

10) Students are not permitted to drop work terms without prior approval of the Committee on Undergraduate Studies upon the recommendation of Business Co-operative Education. Students who drop a work term without permission, or who fail to honour an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the job, will normally be awarded a failed grade for that work term. Permission to drop a work term does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved work term in lieu of the one dropped.

NOTE: Students should also refer to the General Regulations of the University.

ACADEMIC COURSE PROGRAM (following promotion from Terms A/B to Term 1)

The curriculum for academic terms following promotion from Terms A/B is as follows:

NOTE: Also refer to Table I.

Term 1

Business 1101. Principles of Accounting

Business 1201. Principles of Marketing

Statistics 2500. Statistics for Business and Arts Students I

Nine credit hours from List A below.

Term 2

Business 2101. Managerial Accounting

Business 2201. Marketing Applications

Business 2301. Organizational Behaviour

The nine remaining credit hours from List A below not completed in Term I.

LIST A

- Business 1600. Introduction to Entrepreneurship
- Business 2000. Business Communications
- Business 2401. Quantitative Methods for Business
- Computer Science 2801. Introduction to Computing for Business
- Six credit hours in non-Business electives**.

Term 3

Business 3320. Introduction to Labour Relations

Business 3401. Operations Management

Business 3700. Information Systems

Six elective credit hours from List B below.

Term 4

Business 4000. Business Law I

Business 4320. Introduction to Personnel and Human Resource Management

Business 4401. Management Science

Business 4500. Financial Management I

Economics 3150. Money and Banking

Term 5

Business 5301. Organizational Theory

Twelve credit hours chosen from List B below, not completed in Term 3.

Term 6

Business 7000. Organizational Strategy

Twelve credit hours chosen from List B below, not completed in Term 3 or 5.

Term 7

The remaining 15 credit hours from List B below, not completed in Terms 3, 5, and 6.

LIST B

- Thirty credit hours in Business electives, including non-Business courses prescribed for a concentration.

- Fifteen credit hours in non-Business electives**.

**Of the 21 credit hours in non-Business electives required, at least 15 must be chosen from the Faculties of Arts and/or Science.

REGULATIONS FOR THE HONOURS DEGREE OF BACHELOR OF COMMERCE (CO-OPERATIVE)

An Honours Degree of Bachelor of Commerce (Co-operative) signifies superior academic achievement.

1) To be considered for an Honours Degree, the candidates must so indicate on the University's official "Application for Degree" form.

2) Candidates for the Honours Degree of Bachelor of Commerce (Co-operative) shall comply with all regulations governing the General Degree of Bachelor of Commerce (Co-operative).

3) A candidate shall:

a) maintain at least a 75% average and an average of at least 3.5 points on the courses which comprise the 84 credit hours in Business (including non-Business concentration program courses) as specified in "The Curriculum" , and

b) maintain an average of at least 3.25 points on the courses which comprise the total number of credit hours required for the degree, and

c) achieve a passing grade in each of the courses which comprise the 84 credit hours in Business.

4) A declared candidate for an Honours Degree who fails to fulfill the conditions of Clause 3 but fulfills the requirements for a General Co-operative Degree shall be awarded the General Degree of Bachelor of Commerce (Co-operative).

5) A student who has been required to withdraw from the program as a result of failing to meet the requirements for promotion from academic Terms 1 through 7 or from Work Terms 1, 2, or 3 will not be eligible for an Honours Degree.

6) Candidates are not permitted to repeat or substitute courses for the purpose of meeting the academic standing specified in Clause 3."

Page 418, 2002-2003 Calendar, delete the entire entry from Regulations for the General Degree of Bachelor of Business Administration to Regulations for the Honours Degree of Bachelor of Business Administration inclusive, and replace with the following:

"REGULATIONS FOR THE GENERAL DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

ADMISSION MODES AND REQUIREMENTS

Direct Entry (for High School Students)

Students may apply for admission into first year of the BBA program (Terms A/B) directly from high school by indicating this in the appropriate place on their General Application For Admission to Memorial University. Direct entry from high school is subject to the applicant's final acceptance to the University and admissibility into either Mathematics 1000 or 1090. Terms A/B normally starts in September.

Advanced Standing (for Current Memorial Students)

- 1) Students may apply for admission with Advanced Standing into the BBA program beyond Terms A/B. Students applying for admission beyond Terms A/B must have completed all of the courses required in Terms A/B with grades high enough to have met continuation requirements. Students applying for admission with advanced standing must complete and submit to the Registrar's Office the Application For Admission to the Faculty of Business Administration, normally on or before the deadlines specified in the University Diary for the semester in which they intend to begin their program.
- 2) Admission with Advanced Standing is competitive and selective. Prospective students are therefore encouraged to consider an alternate degree program in the event that they are not accepted into the BBA program.
- 3) The primary criterion used in reaching decisions on applications for admission with advanced standing is overall academic achievement. Selection, therefore, will be based on a student's **overall** academic performance. Students with weak overall academic records are unlikely to be admitted.
- 4) In the case where an applicant has been required to withdraw from the Bachelor of Commerce (Co-operative) Program, the Admissions Committee of the Faculty **may** consider this circumstance as grounds to deny admission.

Transfers From Other Post-Secondary Institutions

- 1) Students who are transferring from other universities must apply for admission to the University on or before the deadlines specified in the University Diary for the semester in which they intend to begin their program, to allow sufficient time for the evaluation of transfer credits. The acceptance of transfer students into the BBA program is subject to the same conditions outlined under **Advanced Standing (for Current Memorial Students)** above.
- 2) Subject to items 2) and 3) under **Advanced Standing (for Current Memorial Students)** above, graduates of a three-year community college business diploma program may also be considered for admission with advanced standing into the BBA program. To be eligible for the General Degree of Bachelor of Business Administration such students will be required to complete a minimum of 45 credit hours beyond those used towards their college diploma. Specific course requirements will be determined on an individual basis at the time of admission.

THE CURRICULUM

- 1) The BBA program requires a total of 120 credit hours.
- 2) By the end of the Spring Semester of their first year, Terms A/B students must have successfully completed the following 30 credit hours:

- a) Six credit hours in English courses*;
- b) Mathematics 1000;
- c) Economics 2010 and 2020;
- d) Business 1000;
- e) Twelve additional credit hours in non-Business courses, at least 9 credit hours of which must be in courses chosen from the Faculties of Arts and/or Science and/ or the School of Music.

* It is strongly recommended that students complete English 1110, Comprehension, Writing and Prose Style, as one of these English courses.

3) In addition to the Terms A/B requirements, the curriculum shall consist of the successful completion of:

a) Sixty credit hours consisting of: Computer Science 2801, Statistics 2500, Economics 3150, Business courses 1101, 1201, 1600, 2000, 2101, 2201, 2301, 2401, 3320, 3401, 3700, 4000, 4320, 4401, 4500, 5301, and 7000.

b) Students are encouraged to note the prerequisites for 7000 (Organizational Strategy) and to plan their courses so that they have completed the prerequisites prior to the semester in which they plan to take 7000.

c) Thirty other credit hours, of which not more than 9 credit hours may be from courses in the Faculty of Business Administration.

4) For graduation, a student must be enrolled in the BBA program, and have obtained a minimum average of 60% on the program courses.

MINOR OR COGNATE FROM ANOTHER ACADEMIC UNIT

1) A student enrolled in the BBA program may complete a minor within the Faculty of Arts, the Faculty of Science, the School of Music, or from Sir Wilfred Grenfell College. Regulations for the minor are given under the Calendar entries for the Faculty of Arts, the Faculty of Science, the School of Music, and Sir Wilfred Grenfell College.

2) A student enrolled in the BBA program may pursue a minor (or equivalent) in other non-business academic units (where minor programs exist) with i) permission of that academic unit and ii) permission of the Undergraduate Studies Committee of the Faculty of Business Administration.

CONTINUATION

1) The Faculty Council of the Faculty of Business Administration constitutes the examining body for all examinations in Business courses. In addition, the standing of every student will be assessed by the Committee on Undergraduate Studies in accordance with the continuation requirements outlined in paragraphs (2) and (3) below.

2) Students in Terms A/B will be considered for continuation in the BBA program at the end of the Spring Semester of their first year. At that time, for continuation after Terms A/B, students must have successfully completed the 30 credit hours prescribed in 2) of **THE CURRICULUM** above, with an overall average on those 30 credit hours of at least 65%. Students who do not satisfy these requirements will be required to withdraw from the program.

Students who have been required to withdraw following Terms A/B may be considered for re-admission to the program in accordance with the entry under **ADMISSION MODES AND REQUIREMENTS** above, with the heading **Advanced Standing (for Current Memorial Students)**.

A required withdrawal for failure to meet the continuation requirements from Terms A/B **will not** be reflected on a student's transcript.

3) Following Terms A/B, BBA students must qualify for continuation after each term of study. For continuation, students must have an overall average of 60% over their last ten courses taken. In the event that a student has more courses than needed in the earliest term used, the courses with the highest grades in that term will be used.

Students who fail to achieve these standards will be required to withdraw from the program. They may be considered for re-admission after a lapse of two semesters. In order to be considered for re-admission, students must formally apply for re-admission.

A required withdrawal for failure to meet continuation requirements in terms following Terms A/B **will** be reflected on a student's transcript.

4) Students beyond Terms A/B who are required to withdraw a second time are not eligible for re-admission into their program.

5) The Committee on Undergraduate Studies of the Faculty of Business Administration may allow a student to continue who fails to achieve the standards outlined in 3) above. A decision of this nature will be made only for reasons acceptable to the Committee on Undergraduate Studies.

REGULATIONS FOR THE HONOURS DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

An Honours degree of Bachelor of Business Administration signifies superior academic achievement.

1) To be considered for an Honours degree, the candidates must so indicate on the University's official "Application for Degree" form.

2) Candidates for the Honours Degree of Bachelor of Business Administration shall:

- a) comply with all regulations governing the General Degree of Bachelor of Business Administration, and
- b) achieve at least a 75% numerical average and a grade point average of 3.5.
- 3) Candidates are not permitted to repeat or substitute courses for the purpose of meeting the academic standing specified in Clause 2.
- 4) A declared candidate for an Honours degree who fails to fulfil the conditions of Clause 2 but fulfils the requirements for a General degree shall be awarded the General Degree of Bachelor of Business Administration."

On pages 425, 426, 427 and 428, 2002-2003 Calendar, delete Tables 1, 2, 3, and 4 and replace with the following:

"

TABLE I

BACHELOR OF COMMERCE (CO-OPERATIVE) CURRICULUM

	Six credit hours in English courses*
	Mathematics 1000
	Economics 2010 and 2020
Terms A/B (Fall and Winter)	Business 1000
	Twelve additional credit hours in non-Business electives, at least 9 credit hours of which must be in courses chosen from the Faculties of Arts and/or Science and/ or the School of Music
	Business 1101. Principles of Accounting
	Business 1201. Principles of Marketing
Term One (Fall)	Statistics 2500. Statistics for Business and Arts Students
	Nine credit hours chosen from:
	Business 1600. Introduction to Entrepreneurship
	Business 2000. Business Communications
	Business 2401. Quantitative Methods for Business

Computer Science 2801. Introduction to Computing for Business

Six credit hours in non-Business electives**

Business 2101. Managerial Accounting

Business 2201. Marketing Applications

Term Two
(Winter)

Business 2301. Organizational Behaviour

Remaining 9 credit hours chosen from:

Business 1600. Introduction to Entrepreneurship

Business 2000. Business Communications

Business 2401. Quantitative Methods for Business

Computer Science 2801. Introduction to Computing for Business

Six credit hours in non-Business electives**

Spring

Term Three
(Fall)

Business 3320. Introduction to Labour Relations

Business 3401. Operations Management

Business 3700. Information Systems

Six credit hours in elective courses**

Work Term I
(Winter)

Business 399W

Business 4000. Business Law I

Business 4320. Introduction to Personnel and Human Resource

Term Four
(Spring)

Management

Business 4401. Management Science

Business 4500. Financial Management I

Economics 3150. Money and Banking

Work Term II
(Fall)

Business 499W

Term Five

Business 5301. Organizational Theory

(Winter)

Twelve credit hours in elective courses**

Work Term III Business 599W

(Spring)

Term Six Business 7000. Organizational Strategy

(Fall)

Twelve credit hours in elective courses**

Term Seven Fifteen credit hours in elective courses**

(Winter)

* It is strongly recommended that students complete English 1110, Comprehension, Writing and Prose Style, as one of these English courses.

** Of the 51 credit hours in elective courses required in the program from Terms 1 through 7, thirty must be chosen from Business courses (including non-Business courses prescribed for a concentration) and twenty-one must be non-Business courses. Of the 21 credit hours in non-Business electives, at least fifteen must be chosen from the Faculties of Arts and/or Science and/or the School of Music.

**TABLE II
PLAN OF OPERATION
THE BACHELOR OF COMMERCE (CO-OPERATIVE) PROGRAM**

YEAR OF entry into the program	YEAR OF graduation from the program	2003	2004			2005			2006			2007	
		Sept-Dec	Jan-Apr	May-Aug	Sept-Dec	Jan-Apr	May-Aug	Sept-Dec	Jan-Apr	May-Aug	Sept-Dec	Jan-Apr	May-Aug
2000	2004	Term 6	Term 7										
2001	2005	Work Term 2	Term 5	Work Term 3	Term 6	Term 7							
2002	2006	Term 3	Work Term 1	Term 4	Work Term 2	Term 5	Work Term 3	Term 6	Term 7				
2003 (for AS* students)	2007	Term 1	Term 2	Free Semes.	Term 3	Work Term 1	Term 4	Work Term 2	Term 5	Work Term 3	Term 6	Term 7	

2003 (for DE** students)	2007	Term A	Term B	Free Semes.	Term 1	Term 2	Free Semes.	Term 3	Work Term 1	Term 4	Work Term 2	Term 5	Work Term 3
2004 (for DE** students)	2008				Term A	Term B	Free Semes.	Term 1	Term 2	Free Semes.	Term 3	Work Term 1	Term 4

* AS stands for students admitted with Advanced Standing to a Term other than Terms A/B

** DE stands for students admitted directly from High School to Terms A/B

**TABLE III
BACHELOR OF COMMERCE (CO-OPERATIVE) CURRICULUM
(COMPLETED JOINTLY WITH THE DEGREE OF BACHELOR OF ARTS)**

Please refer to the calendar entry for the Faculty of Arts for complete course descriptions and regulations for the Bachelor of Arts degree.

Terms A/B (Fall and Winter)	Six credit hours in English courses*; Mathematics 1000; Economics 2010 and 2020; Business 1000; Twelve additional credit hours in non-Business electives, at least 9 credit hours of which must be in courses chosen from the Faculties of Arts and/or Science and/ or the School of Music.
Term One (Fall)	Business 1101. Principles of Accounting Business 1201. Principles of Marketing Statistics 2500. Statistics for Business and Arts Students Nine credit hours chosen from: Six credit hours in Major, Core or elective courses [See <i>NOTE 1</i> below] Business 1600. Introduction to Entrepreneurship

	<p>Business 2000. Business Communications</p> <p>Business 2401. Quantitative Methods for Business</p> <p>Computer Science 2801. Introduction to Computing for Business</p>
Term Two (Winter)	<p>Business 2101. Managerial Accounting</p> <p>Business 2201. Marketing Applications</p> <p>Business 2301. Organizational Behaviour</p> <p>Remaining 9 credit hours chosen from:</p> <p>Business 1600. Introduction to Entrepreneurship</p> <p>Business 2000. Business Communications</p> <p>Business 2401. Quantitative Methods for Business</p> <p>Computer Science 2801. Introduction to Computing for Business</p> <p>Six credit hours in Major, Core or elective courses [See <i>NOTE 1</i> below]</p>
Spring	[See <i>NOTE 2</i> below]
Term Three (Fall)	<p>Business 3320. Introduction to Labour Relations</p> <p>Business 3401. Operations Management</p> <p>Business 3700. Information Systems</p> <p>At least 6 credit hours in Major, Core or elective courses [See <i>NOTE 3</i> below]</p>
Work Term 1 (Winter)	Business 399W [See <i>NOTE 2</i> below]
Term Four (Spring)	<p>Business 4000. Business Law I</p> <p>Business 4320. Introduction to Personnel and Human Resource Management</p> <p>Business 4401. Management Science</p> <p>Business 4500. Financial Management I</p> <p>Economics 3150. Money and Banking</p>
Work Term II	Business 499W [See <i>NOTE 2</i> below]

(Fall)	
Term Five (Winter)	Business 5301. Organizational Theory At least 12 credit hours in Major, Core or elective courses [See NOTE 3 below]
Work Term III (Spring)	Business 599W [See NOTE 2 below]
Term Six (Fall)	Business 7000. Organizational Strategy At least 12 credit hours in Major, Core or elective courses [See NOTE 3 below]
Term Seven (Winter)	At least 15 credit hours in Major, Core or elective courses [See NOTE 3 below]

* It is strongly recommended that students complete English 1110, Comprehension, Writing and Prose Style, as one of these English courses.

NOTES: 1)The degree of Bachelor of Arts requires completion of a Major program, a Minor program, a set of Core Requirements, and elective courses, totalling at least 78 credit hours in courses offered by departments within the Faculty of Arts (or Computer Science, Mathematics and Statistics, and Psychology). When the degree of Bachelor of Arts is completed jointly with the degree of Bachelor of Commerce (Co-operative):

- a) Minor program requirements are satisfied by Business courses specified in Table 1 above.*
- b) Core requirements for English and Numeracy/Science are satisfied by courses completed in Terms A/B or during Terms 1 or 2 of the Bachelor of Commerce (Co-operative) degree.*
- c) It is recommended that the Core Requirement for 6 credit hours in courses in a second language be completed in Terms A/B of the Bachelor of Commerce (Co-operative) degree program.*
- d) Core requirements for 6 credit hours in research/writing courses may be satisfied by including two such courses within the 78 credit hours in courses offered by departments within the Faculty of Arts. Please consult the Undergraduate Registration Procedures booklet to determine research/writing course offerings in any given semester.*
- e) Major requirements for the degree of Bachelor of Arts may be satisfied in 36 to 45 credit hours, depending on the department or program chosen. Students are strongly recommended to seek advice from the department or program of their Major to ensure that their proposed degree program is possible within the constraints of course scheduling and prerequisites.*

2)Students are advised that, in order to complete the joint degrees within the minimum 150 credit hours, they should be prepared to complete at least three of the courses required for the degree of Bachelor of Arts as opportunities arise and as courses are offered. Following Term 2 of the program for the Bachelor of Commerce (Co-operative)

degree, these courses may be completed during the Spring semester between Terms 2 and 3, or during any of the three Work Terms (for example, in the evening or by distance), or as sixth courses during any of Terms 3, 4, 5, 6 or 7 (following submission of a course-load waiver).

3)To meet the requirements for the degree of Bachelor of Commerce (Co-operative), not fewer than fifteen (15) and not more than thirty (30) credit hours in elective courses must be chosen from Business courses (including non-Business courses prescribed for a concentration). Students intending to complete the joint degrees in the minimum number of 150 credit hours should ensure that at least 78 of these credit hours are completed in courses offered by departments within the Faculty of Arts (or Psychology, Mathematics and Statistics, and Computer Science). Careful planning, particularly in the selection of elective courses as well as in the sequence of Major program courses, is therefore recommended to ensure timely completion of the joint degrees.

TABLE IV

BACHELOR OF COMMERCE DEGREE (CO-OPERATIVE) CURRICULUM COMPLETED JOINTLY WITH THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Please refer to the calendar entry for the Faculty of Science for complete course descriptions and regulations for the Bachelor of Science degree.

<p>Terms A/B (Fall and Winter)</p>	<p>Six credit hours in English courses*; Mathematics 1000; Economics 2010 and 2020; Business 1000; Twelve additional credit hours in non-Business electives, at least 9 credit hours of which must be in courses chosen from the Faculties of Arts and/or Science** and/ or the School of Music.</p>
<p>Term One (Fall)</p>	<p>Business 1101. Principles of Accounting Business 1201. Principles of Marketing Statistics 2500. Statistics for Business and Arts Students I OR Statistics 2510. Statistics for Physical Science Computer Science 2710. Problem Solving and Programming</p>

	Computer Science 2740. Discrete Structures I Business 1600. Introduction to Entrepreneurship
Term Two (Winter)	Business 2000. Business Communications Business 2101. Managerial Accounting Business 2201. Marketing Applications Business 2301. Organizational Behaviour Business 2401. Quantitative Methods for Business Computer Science 2711. Introduction to Algorithms and Data Structures
Spring	[See NOTES 1 and 2 below]
Term Three (Fall)	Business 3320. Introduction to Labour Relations Business 3401. Operations Management Business 3700. Information Systems Computer Science 2741. Discrete Structures II Computer Science 3724. Computer Organization
Work Term I (Winter)	Business 399W [See NOTE 1 below]
Term Four (Spring)	Business 4000. Business Law I Business 4320. Introduction to Personnel and Human Resource Management Business 4401. Management Science Business 4500. Financial Management I Economics 3150. Money and Banking
Work Term II (Fall)	Business 499W [See NOTE 1 below]
Term Five (Winter)	Business 5301. Organizational Theory Computer Science 3711. Algorithms and Complexity

	Computer Science 3740. Abstract Machines, Languages and Computations 2 electives [See NOTE 3 below]
Work Term III (Spring)	Business 599W [See NOTE 1 below]
Term Six (Fall)	Business 7000. Organizational Strategy Computer Science 3714. Programming Languages and their Processors Computer Science 3725. Computer Architecture 1 Computer Science elective 1 elective [See NOTE 3 below]
Term Seven (Winter)	Computer Science 4718. Software Methodology Computer Science 4721. Operating Systems Principles 1 Computer Science elective 2 electives [See NOTE 3 below]

* It is strongly recommended that students complete English 1110, Comprehension, Writing and Prose Style, as one of these English courses.

** Students who wish to complete the joint degrees of Bachelor of Commerce (Co-operative) and Bachelor of Science in Computer Science must complete Computer Science 1700, three more credit hours in Mathematics and are strongly advised to complete three additional credit hours in Science electives.

NOTES: 1) Students are advised that, in order to complete the joint degrees within the minimum 150 credit hours, they should be prepared to complete at least three of the courses required for the degree of Bachelor of Science as opportunities arise and as courses are offered. Following Term Two of the program for the Bachelor of Commerce (Co-operative) degree, these courses may be completed during the Spring semester between Terms 2 and 3, or during any of the three Work Terms (for example, in the evening or by distance), or during Terms 3, 4, 5, 6 or 7 (following submission of a course-load waiver).

2) To meet the requirements for the Joint Degree in the minimum number of 150 credit hours, careful planning, particularly in the selection of elective courses as well as in the sequence of Major program courses, is recommended to ensure timely completion. Also, note that in order to meet the Science general regulations, students must have completed courses in at least four areas of Science.

3) Six credit hours must be Business electives and 6 credit hours must be Science electives."

57.4 School of Pharmacy

Page 364, 2002-2003 Calendar, immediately following the heading Regulations, delete the program in its entirety and replace with the following:

"INTRODUCTION

The School of Pharmacy is committed to providing an undergraduate program of quality and excellence that will produce individuals who will contribute significantly in all settings of pharmacy practice. Students studying towards the B.Sc.(Pharmacy) degree will acquire, a background in the mathematical and physical sciences, and humanities. Following this, students will receive an extensive education in pharmacy and the cognate health sciences and intensive practice experience.

The program of study leading to the B.Sc.(Pharmacy) has two phases and requires at least five years to complete.

The School of Pharmacy is in a process of changing its curriculum from two pre-pharmacy years and three pharmacy years (2 + 3 program) to one pre-pharmacy year and four pharmacy years (1 + 4 program).

Students will be accepted into the 2 + 3 program in September 2003 and 2004, after which students will not be admitted to a 2 + 3 program. Students wishing to enter this program must complete the two years of pre-entrance studies as described below (Admission to the School of Pharmacy, Regulation 6). Students will then be selected for Pharmacy Studies in which they will study the pharmaceutical and cognate health sciences for three years (see Course List).

NOTE: ENTRY INTO THE FINAL THREE YEARS OF THE PROGRAM IS COMPETITIVE. NORMALLY SELECTION WILL BE MADE FROM THOSE WHO HAVE COMPLETED THE PRE-ENTRANCE STUDIES (SEE REGULATION 4, ADMISSION TO THE SCHOOL OF PHARMACY).

The first class of the 1 + 4 program will begin in September 2004. Students must complete the first year of pre-entrance studies as described below (Admission to the School of Pharmacy, Regulation 6). Students will then be selected for Pharmacy Studies in which they will study the pharmaceutical and cognate health sciences for four years.

NOTE: ENTRY INTO THE FINAL FOUR YEARS OF THE PROGRAM IS COMPETITIVE. NORMALLY SELECTION WILL BE MADE FROM THOSE WHO HAVE COMPLETED THE PRE-ENTRANCE STUDIES (SEE REGULATION 4, ADMISSION TO THE SCHOOL OF PHARMACY).

VISION STATEMENT

Fostering the development of pharmacy graduates committed to enhancing the health of individuals and the community.

MISSION STATEMENT

Through the scholarly pursuits of teaching, research and service, the School of Pharmacy is dedicated to -

- ? preparing pharmaceutical care practitioners committed to life long learning.
- ? fostering excellence and innovation in research and graduate studies.
- ? developing and participating in professional practice and community outreach.
- ? advancing the profession.

ACCREDITATION STATUS

The School of Pharmacy is accredited by the Canadian Council for Accreditation of Pharmacy Programs to June 2004.

ADMISSION TO THE SCHOOL OF PHARMACY

In September 2004 only, the School will admit students to both the 2 + 3 program and the 1 + 4 program. Students may apply for either (a) the two year pre-pharmacy studies program followed by three years of Pharmacy studies, or (b) the one year pre-pharmacy study program followed by four years of Pharmacy studies. To accommodate both programs, enrollment in the School of Pharmacy will be increased temporarily. However, as a result of the greater number of students requiring the use of limited resources, the numbers accepted into each individual program of study will be decreased.

- 1) All applications for entry to the program for the Bachelor of Science in Pharmacy must be submitted to the Office of the Registrar of the University on or before the deadline of March 1 in any year.
- 2) Applications will be reviewed after the closing date by the Admissions Committee of the School of Pharmacy. This Committee has the delegated authority of the School Council to admit or decline to admit applicants, following guidelines and procedures acceptable to that Council.
- 3) Admissions will normally be to the first year of pharmacy studies. In some circumstances, however, admission with advanced standing may be offered.
- 4) Entry to the School of Pharmacy is on the basis of competition for a fixed number of places. The Admissions Committee takes into account the applicant's academic background, and information on an applicant's personal characteristics and achievements as given by the applicant and by referees' reports. Personal interviews may be required

which may include both a written and oral component. Priority is given to applicants who are bona fide residents of this province and who are Canadian citizens, or permanent residents.

5) The Admission Committee's decision to admit or decline to admit an applicant will be made on the basis of the competition for entry in the year of application and will be determined by the Committee's judgement of the likelihood of an applicant succeeding in the academic and professional studies leading to the award of the B.Sc.(Pharm.) and the eventual practice of pharmacy.

6)a) Eligibility for 2 + 3 Program: To be eligible for consideration for admission to the 2 + 3 program in September 2003 and 2004, an applicant shall have completed a minimum of 60 credit hours which have been taken or accepted for credit at a recognized University or University College, before entry to the School of Pharmacy.

Students applying to enter are normally required to have completed each of the following courses or their equivalents:

- Biology 1001, 1002
- Chemistry 1050, 1051; or 1010, 1011, and 1031
- Chemistry 2400, 2401 and 2300
- English 1080, 1101 or equivalent
- Mathematics 1000
- Mathematics 1001
- Physics 1020, 1021; or 1050 and 1054
- Psychology 1000, 1001
- Statistics 2550

In addition to the above courses, students should have 6 credit hours, preferably from the following list:

- Anthropology - Music
- Classics - Philosophy
- English - Political Science
- Fine Arts - Religious Studies
- Folklore - Second Language
- Geography - Sociology
- History - Women's Studies
- Linguistics

b) Eligibility for 1 + 4 Program: To be eligible for consideration for admission to the 1 + 4 program in September 2004 and thereafter, an applicant shall have completed a minimum of 30 credit hours which have been taken or accepted for credit at a recognized University or University College, before entry to the School of Pharmacy.

Students applying to enter are normally required to have completed each of the following courses or their equivalents:

- Biology 1001, 1002
- Chemistry 1050, 1051
- English 1080
- Mathematics 1000, 1001
- Physics 1020, 1021; or 1050, 1054
- Business 2000

Normally an application will not be considered from an applicant who cannot produce evidence that the above requirements have been met or will have been met by the time of entry into the School of Pharmacy.

7) Students are advised to declare a major in order to assist in their course enrollments. Because of the limited number of places, students are strongly advised to plan their courses with an alternative degree program in mind.

8) Each applicant is responsible for ensuring that all the required information for application is supplied to the Admissions Committee, and for providing any further information required by the Committee. An application will not be considered to be complete until all documentation has been received.

9) Notification of the decision of the Admissions Committee of the School of Pharmacy will be made to candidates by the Director of the School of Pharmacy. No other form of notification can be considered official.

10) The letter of acceptance will give the successful applicant fourteen (14) days (from the date of the letter of notification) in which to confirm that she/he will accept the place offered. The signed intention to accept the offer must be accompanied by a deposit of \$100, which will be credited towards tuition fees. The deposit will be forfeited if the applicant subsequently declines the offer or fails to enroll. If no reply is received within 14 days, the offer by the School of Pharmacy will be withdrawn and the applicant will be informed of this by letter.

11) Unsuccessful applicants who wish to re-apply for admission are required to submit the application forms relevant to the year of re-application and be required to enter into the competition for that year.

12) An unsuccessful applicant has the right to appeal the decision of the Admissions Committee not to offer her/him a place, if it is felt by the applicant that the decision was reached on grounds other than those specified in paragraph 4 above. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Director of the School of Pharmacy. The letter should state clearly and fully the grounds for the appeal. If the Director of the School of Pharmacy, in

consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated.

13) Students who have been admitted to the program in the School of Pharmacy will be required to complete a clinical clerkship during the final year of studies. While every effort will be made to accommodate students' requests to complete a clerkship in a specific location, a student may be assigned to any participating clerkship site within the province of Newfoundland and Labrador. Students are responsible for all travel and accommodation costs associated therewith.

EVALUATION AND PROMOTION

1) Subject to the approval of Senate, the overall policy of evaluation and the planning of the programs of studies leading to the degree of B.Sc.(Pharm.) is the responsibility of the Undergraduate Studies Committee, which is a standing committee of the Council of the School of Pharmacy. Responsibility for scheduling and co-ordinating courses rests with the chairperson of that committee in collaboration with those staff responsible for instruction in the courses.

2)a) Each student is expected to complete the work as described in the current regulations of the School of Pharmacy for each year of the program and to pass the prescribed academic examinations.

b) Student attendance is required at all seminar and laboratory classes, Studentship sessions and Clerkship sessions as indicated in the Course Descriptions. Classes or sessions that are missed will be excused only for medical/compassionate reasons, which will require suitable documentation. Students so excused are responsible for obtaining the material they missed. Failure to comply with these requirements may result in the student receiving a failing grade in the course.

3)a) Evaluation of each student's performance is conducted by the instructor(s) in each course. The average required for promotion from any given year will be sixty-five (65%). A weighted average based on credit hours in the Pharmacy program courses will be calculated for determining eligibility for promotion. Neither promotion nor graduation will be permitted if a student has a grade below fifty (50%) percent in any course in the pharmacy program.

b) The passing grade in Pharmacy 3004 Professional Practice is 70%, failing which the student may be required to withdraw.

c) Students in the 1st and 2nd years of Pharmacy Studies will be permitted to meet their elective requirements from courses taken previously. However, only those courses for which credit has been granted, and that have not been used for admission to the Pharmacy program will be acceptable.

d) A student must attain a passing grade in each elective, but these courses will not be included in calculating the student's average grade for the purposes of promotion, graduation or academic awards.

4)a) The Student Promotions Committees are subcommittees of the Undergraduate Studies Committee and are composed of the instructors of the relevant years' courses. It is the responsibility of the Student Promotions Committees to monitor each student's progress for each year of the undergraduate curriculum on the basis of grades submitted by the individual instructors.

b) The Student Promotions Committees will review the results of all evaluations in any year. On the basis of this review, the Committee will decide which students should be promoted to the next year of studies. In reaching its decision the Committee will take into account academic factors and any special circumstances which may warrant consideration.

5) Following the completion of each academic year, the Student Promotions Committee will report to the Undergraduate Studies Committee:

- ? the number of students in the class who are to be promoted and the circumstances under which promotions have not been recommended;
- ? the grades to be awarded to students for recommendation to the Registrar for entry on the official University transcript for each student;
- ? the names of those students who are deemed eligible for the award of the degree B.Sc.(Pharm.) for recommendation to the Senate.

6) A student who fails to meet the promotion requirements outlined in Clause 3 above may be required to repeat all or part of the studies in any year, or may be required to withdraw from the program.

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 meet the conditions of Clause 3 above. If this standard is not met, the Undergraduate Studies Committee may require the student to withdraw from the program.

b) Normally, the option to repeat a year on the grounds of academic difficulties can be offered only once during the student's B.Sc.(Pharm.) program. This restriction may be waived if it has been demonstrated that the student's academic performance has been adversely affected by other factors duly authenticated and acceptable to the Undergraduate Studies Committee.

c) If a student is required to withdraw from the program by the Undergraduate Studies Committee, the chairperson will report the decision and the basis upon which it was reached to the Director of the School of Pharmacy. The Director may then recommend to the Registrar that the student be required to withdraw from the program. Any student who is required to withdraw from the program and who wishes to re-enter the School must

apply as a regular applicant in competition with other applicants through the Admissions Office.

7) The Undergraduate Studies Committee may require a student who is deemed unlikely to benefit from continued attendance in his/her course of study to withdraw conditionally. The Chairman of the committee will advise the Director of the School of Pharmacy of the circumstances precipitating this action, the duration of the withdrawal and any conditions the student must fulfil during the withdrawal. The Director may then recommend to the Registrar that the student is on conditional withdrawal. Upon completing the conditions, the student may be permitted re-entry to the program. If the conditions are not met, the student may be required to withdraw from the program.

8) A student has the right to make a formal appeal against a decision of the Undergraduate Studies 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 the 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 Director, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.

9) Students obtaining a failing grade in pharmacy courses due to exceptional circumstances may be permitted to write supplementary examinations subject to normal appeal process by the student. Such an appeal must be made in writing [within one week of release of grades].

10) In addition to the above clauses, the School of Pharmacy reserves the right to require a student to withdraw from the program at any time when acceptable cause is demonstrated. In such cases, the Director, on behalf of the School, 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 Director, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.

11) Upon completion of an academic year, a student in good standing may elect to withdraw temporarily from studies. Voluntary withdrawal at other times and for other reasons may be permitted in accordance with UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) - Registration. In all cases, the intent to withdraw voluntarily should be discussed with the Director. The Director may then recommend to the Registrar that a student be permitted to withdraw for a stated period of time. At the end of this period, the student, in consultation with the Undergraduate Studies Committee, should ensure that sufficient revision and preparatory work is undertaken to allow studies to be resumed readily.

In the absence of good cause, any such student who does not resume studies on the specified date may be deemed to have left the program.

12) The Director and/or Registrar will report actions regarding Clauses 6 to 10 to the Council of the School of Pharmacy for information.

PROGRAM OF STUDIES

For the Bachelor of Science in Pharmacy a candidate must complete satisfactorily:

1) the entrance requirements for admission to the First Year of Pharmacy Studies [see Admission to the School of Pharmacy, Regulation 6]; and

2) all credit and non-credit courses included in the Course List for the First, Second and Third Years of Pharmacy Studies. After successful completion of the Third Year of Pharmacy Studies, the Undergraduate Studies Committee may recommend to Council that the degree, Bachelor of Science in Pharmacy, be awarded.

OUTLINE OF STUDENTSHIP PROGRAM

A structured practice experience program will be offered after the first and second Pharmacy years in appropriate pharmacies in Newfoundland and Labrador and other provinces. Successful completion of this program will be required before a graduate can qualify to be licensed to practice as a pharmacist within Newfoundland and Labrador.

Students registered for the Studentship will be permitted to register for up to 6 credit hours in addition to the Studentship.

COURSE STRUCTURE - BACHELOR OF SCIENCE IN PHARMACY

PHARMACY - YEAR 1

Fall Semester

- Biochemistry 3200 (Nutrition I)
- Pharmacy 3011 (Orientation to Pharmacy)
- Pharmacy 3012 (Physical Pharmacy)
- Pharmacy 3110 (Introduction to Biochemistry)
- Pharmacy 3201 (Physiology and Anatomy I)
- Elective

Winter Semester

- Business 1000 (Introduction to Business)
- Pharmacy 3004 (Professional Practice)
- Pharmacy 3005 (Pharmaceutical Preparations)

- Pharmacy 3103 (Microbiology)
- Pharmacy 3111 (General Biochemistry)
- Pharmacy 3202 (Physiology and Anatomy II)

Spring Semester

- Pharmacy 300W (Studentship)

PHARMACY - YEAR 2

Fall Semester

- Medicine 4300 (Introduction to Pharmacology)
- Pharmacy 401W (Seminar)
- Pharmacy 4004 (Pathophysiology)
- Pharmacy 4005 (Chemotherapy)
- Pharmacy 4006 (Applied Pharmacokinetics)
- Pharmacy 4010 (Medicinal Chemistry I)
- Pharmacy 4105 (Immunology)

Winter Semester

- Biochemistry 3201 (Nutrition II)
- Pharmacy 402W (Seminar)
- Pharmacy 4003 (Pharmacy Administration)
- Pharmacy 4009 (Pharmacology)
- Pharmacy 4011 (Medicinal Chemistry II)
- Pharmacy 4104 (Therapeutics I)
- Philosophy 2803
- Elective

Spring Semester

- Pharmacy 410W (Studentship)

PHARMACY - YEAR 3

Fall Semester

- Pharmacy 501W (Seminar)
- Pharmacy 5001 (Human Toxicology)
- Pharmacy 5005 (Communication & Counselling)
- Pharmacy 5009 (Pharmacoepidemiology)
- Pharmacy 5017 (Pharmaceutical Technology)
- Pharmacy 5104 (Therapeutics II)

Winter Semester

- Pharmacy 500X (Clinical Clerkship)

COURSE DESCRIPTIONS

In accordance with Senate's Policy Regarding Inactive Courses, courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Director of the School.

FIRST YEAR OF PHARMACY STUDIES

NOTE: WHERE SPECIFIC PREREQUISITES ARE NOT GIVEN, THE COURSES NORMALLY TAKEN TO MEET THE ELIGIBILITY REQUIREMENTS FOR ADMISSION WILL PROVIDE ANY NECESSARY PREREQUISITES.

Biochemistry 3200. Basic Human Nutrition I (F) (3 cr. hrs.). A study of the nutrients essential to human health and well-being, with emphasis on carbohydrates, proteins and lipids - chemistry, dietary source, dietary requirements, metabolism, physiological importance.

Corequisite: Pharmacy 3110.

Lectures: Three hours per week.

Pharmacy 3011. Orientation to Pharmacy (F) (3 cr. hrs). An introduction to the history, organization and the role of pharmacy in the health care system. Special emphasis will be given to the federal and provincial regulations which govern the practice of pharmacy. The relationship between law and ethics will also be discussed. The laboratory and tutorials cover computer applications in pharmacy, library search techniques and current pharmacy practice issues.

Lectures: Three hours per week.

Laboratory and Tutorial: Three hours per week. Attendance is required.

Pharmacy 3012. Physical Pharmacy (F) (3 cr. hrs.). Physico-chemical aspects of drugs and formulations and their importance in designing efficient dosage forms. Principles of physical chemistry will be applied to understand absorption mechanisms from different dosage forms and routes of administration. Topics covered will include intermolecular forces, solubility, diffusion, ionic equilibria, kinetics, complexation, rheology, interfacial phenomena, colloids and polymers.

Lectures: 3 hours per week

Laboratory: 3 hours per week. Attendance is required.

Pharmacy 3110. Introduction to Biochemistry (F) (3 cr. hrs.). An introduction to the major organic substances of living organisms, proteins, carbohydrates and lipids: their structure, analysis and biochemical function. Enzymes. Biochemistry of membranes: plasma membrane and specialized intracellular membranes. Biochemistry of selected

differentiated cells.

Lectures: Three hours per week.

Tutorials: As required.

NOTE: Credit cannot be received for Pharmacy 3110 and Biochemistry 2101.

Pharmacy 3201. Anatomy and Physiology I (F) (3 cr. hrs). This course presents a survey of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of pharmacy. Special emphasis is given to the skeletal, muscular, nervous and endocrine systems. The course will include both the vocabulary and concepts of anatomy and physiology with the overall goal being the understanding of the interrelationships and integration of all systems from the cell to whole organism.

Lectures: Three hours per week.

Laboratory: Two hours per week. Attendance is required

NOTE: Credit cannot be received for Pharmacy 3201 and Nursing 1002.

Elective (F). Any 3 credit hours chosen from the Calendar with the approval of the Director of the School of Pharmacy (or delegate).

Lectures: Three hours per week

Business 1000. Introduction to Business (W) (3 cr. hrs.). An overview of business in the Canadian environment is presented in the course with emphasis on the stakeholders involved and the issues confronting managers. The course examines the functional areas of enterprise (finance, marketing, production, and human resources management) in addition to providing an overview of the business system. An analysis of actual business situations provides a framework of study.

NOTE: Credit may not be obtained for both Business 2001 and Business 1000.

Pharmacy 3004. Professional Practice (W) (3 cr. hrs). Introduction to a dispensary and the operations of a dispensary. Application of pharmacy regulations in the dispensing of medications. Pharmacy record keeping using computerized and manual systems. Usage of drug delivery systems and devices. Emphasis is placed on patient counselling and the pharmaceutical care approach. Current topics of interest in professional practice will be offered by faculty, visiting speakers and graduate students.

Lecture/Seminar: Two hours per week.

Tutorials: Up to two hours per week. Attendance is required

Laboratory: Two hours per week. Attendance is required.

NOTE: The passing grade in Pharmacy 3004 Professional Practice is 70%, failing which the student may be required to withdraw.

Pharmacy 3005. Pharmaceutical Preparations (W) (3 cr. hrs.). An introduction to the theory and formulation of pharmaceutical dosage forms as they apply to pharmacy practice. The laboratory consists of exercises in the compounding of various types of preparations studied in the classroom. Examples of calculations employed in pharmacy practice are studied where appropriate.

Lectures: Three hours per week.

Laboratory: Three hours per week. Attendance is required.

Pharmacy 3103. Microbiology of Infectious Diseases (W) (3 cr. hrs.). The various types of micro-organisms (bacterial, viral, parasitic and fungal), the environment in which they are able to multiply and their relationship to human diseases. The classifications of their morphology, mode of reproduction and the metabolic process, the physiological and epidemiological principles of infectious diseases and their manifestations are discussed including the principles of immunization.

Lectures: Three hours per week.

Laboratory: One hour per week.

Pharmacy 3111. General Biochemistry (W) (3 cr. hrs.). The catabolism of carbohydrates, lipids and amino acids. Mitochondria, chloroplasts and ATP synthesis. Biosynthesis of carbohydrates and lipids. Metabolic specialization of differentiated cells and tissues. Integration of metabolism.

Lectures: Three hours per week.

Tutorials: As required.

NOTE: Credit cannot be received for Pharmacy 3111 and Biochemistry 3106.

Pharmacy 3202. Anatomy and Physiology II (W) (3 cr hrs). This course presents a survey of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of pharmacy. Special emphasis is given to the endocrine, circulatory, respiratory, urinary, digestive and reproductive systems. The course will include both the vocabulary and concepts of anatomy and physiology with the overall goal being the understanding of the interrelationships and integration of all systems from the cell to whole organism.

Prerequisite: Pharmacy 3201

Lectures: Three hours per week.

Laboratory: Two hours per week. Attendance is required

NOTE: Credit cannot be received for Pharmacy 3202 and Nursing 1012

Pharmacy 300W. Studentship (S). Non-credit course. Practical training in a pharmacy after classes and examinations in the Winter Semester have ended.

Prerequisites: All courses required in the Fall and Winter Semesters of the First Year.

Twelve weeks, 35 hours per week. Attendance is required.

SECOND YEAR OF PHARMACY STUDIES

NOTE: WHERE SPECIFIC PREREQUISITES ARE NOT GIVEN, THE COURSES NORMALLY TAKEN TO MEET THE REQUIREMENTS FOR PROMOTION FROM FIRST TO SECOND YEAR WILL PROVIDE ANY NECESSARY PREREQUISITES.

Medicine 4300. Introduction to General and Autonomic Pharmacology (F) (3 cr. hrs.). This course will deal with the general principles of pharmacology (receptors, absorption, distribution, metabolism, pharmacokinetics), drugs affecting peripheral nerve transmission, the central nervous system and the cardiovascular system.

Prerequisite: Pharmacy 3201 and Pharmacy 3202

Lectures: Three hours per week.

Laboratory: Three laboratories of three hours each. Attendance is required.

Pharmacy 401W (F). Non-credit course. This course consists of seminars given by students, and occasional visiting speakers, on pharmacy related topics. The final grade of Pass with Distinction, Pass or Fail is based on performance, attendance and participation. Attendance is required.

Pharmacy 4004. Pathophysiology (F) (3 cr. hrs.). The nature of disease, causes and effects, and alteration in structure and function of cells, inflammation, neoplasia, genetic and chromosomal diseases, healing and repair, stress and disease.

Lectures: Three hours per week.

Pharmacy 4005. Chemotherapy (F) (2 cr. hrs.). The structure, mechanism of action, selected chemical and physical properties and structure-activity relations of antibiotics and anti-fungal, anti-viral, anti-protozoal, and anti-neoplastic agents. Isolation and history of chemotherapeutic agents. Host defence mechanisms, selectivity, sensitivity and resistance. Interferon, immunosuppressants and immunostimulants.

Corequisite: Pharmacy 4010

Lectures: Two per week.

Tutorials: One hour every other week

Pharmacy 4006. Applied Pharmacokinetics (F) (3 cr. hrs.). Introduction to biopharmaceutical and pharmacokinetic principles useful in the selection, monitoring and evaluation of drug therapy. Application of these principles in evaluating drug literature and developing drug dosage regimens of selected classes of drugs for individual patients.

Prerequisite: Pharmacy 3012.

Lectures: Three hours per week.

Laboratory Hours: Up to three hours per week. Attendance is required.

Pharmacy 4010. Medicinal Chemistry I (F) (3 cr. hrs.). The structures, selected chemical and physical properties, mechanisms of action, and structure-activity relationships of drugs other than chemotherapeutic agents. Theoretical aspects of drug design and drug metabolism. Medicinal agents of plant origin and inorganic pharmaceuticals are also included.

Lectures: Three hours per week.

Tutorial: One hour per week

Pharmacy 4105. Immunology (F) (3 cr. hrs.). Introduction to the molecular and cellular basis of immunity and hypersensitivity. Discussion of the manipulation of the immune system in the management and treatment of disease.

Prerequisite: Pharmacy 3201 and 3202.

Lectures/Tutorials: Three hours per week.

Biochemistry 3201. Basic Human Nutrition II (W) (3 cr. hrs.). A study of the vitamins, minerals and trace elements essential to human health and well being -

chemistry, dietary source, dietary requirements, physiological role, deficiency syndromes.

Prerequisite: Biochemistry 3200

Corequisite: Pharmacy 3111

Lectures: Three hours per week.

Pharmacy 402W (W). Non-credit course. This course consists of seminars given by students, and occasional visiting speakers, on pharmacy related topics. The final grade of Pass with Distinction, Pass or Fail is based on performance, attendance and participation. Attendance is required.

Pharmacy 4003. Pharmacy Administration (W) (1 cr. hr.). This course will discuss the management principles required in contemporary pharmacy practice. The focus will be primarily in the areas of financial and human resource management and organizational and ownership models of pharmacies.

Prerequisite: Business 1000.

Lectures: One hour per week.

Pharmacy 4009. Pharmacology (W) (3 cr. hrs.). The course explores topics in general pharmacology including drugs used in the treatment of inflammatory diseases, renal pharmacology, anticoagulant and antithrombotic drugs, antihyperlipidemics, drugs used in the treatment of anemia, and endocrine pharmacology.

Prerequisite: Medicine 4300 (or equivalent)

Lectures: Three hours per week

Laboratory/Tutorial Hours: Up to three hours per week. Attendance is required.

Pharmacy 4011. Medicinal Chemistry II (W) (3 cr. hrs.). The structures, selected chemical and physical properties, mechanisms of action, and structure-activity relationships of drugs other than chemotherapeutic agents. Theoretical aspects of drug design and drug metabolism. Medicinal agents of plant origin and inorganic pharmaceuticals are also included.

Prerequisite: Pharmacy 4010.

Lectures: Three hours per week.

Tutorials: One hour per week

Pharmacy 4104. Therapeutics I (W) (3 cr. hrs.). This course will provide an understanding of the therapeutic management of common disease states. The student is introduced to the pathophysiologies of common disease states, current drug (prescription and non-prescription) and non-drug therapies, procedures used to monitor drug therapy for clinical response, adverse reactions, drug interactions and contraindications, and the process for distinguishing the rational from the irrational use of drugs. The appropriateness and effectiveness of self-medication treatments will also be discussed.

Lectures: Three hours per week.

Tutorials: Two hours per week.

Prerequisite: Medicine 4300

Corequisite: Pharmacy 4009

Philosophy 2803. Health Ethics. Concepts of health and illness and their ethical application.

Lectures: Three hours per week.

Elective (W). Any 3 credit hours chosen from the Calendar with the approval of the Director of the School of Pharmacy (or delegate).

Lectures: Three hours per week.

Pharmacy 410W. Studentship (S). Non-credit course. Practical training in a pharmacy after classes and examinations in the Winter Semester have ended.

Prerequisite: All courses required in the Fall and Winter Semesters of the Second Year.

Twelve weeks: 35 hours per week. Attendance is required.

THIRD YEAR OF PHARMACY STUDIES

NOTE: WHERE SPECIFIC REQUIREMENTS ARE NOT GIVEN, THE COURSES NORMALLY TAKEN TO MEET THE REQUIREMENTS FOR PROMOTION FROM SECOND TO THIRD YEAR WILL PROVIDE ANY NECESSARY PREREQUISITES.

Pharmacy 501W. Non-credit course (F). This course consists of seminars given by students, and occasional visiting speakers, on pharmacy related topics. The final grade of Pass with Distinction, Pass or Fail is based on performance, attendance and participation. Attendance is required.

Pharmacy 5001. Human Toxicology (F) (3 cr. hrs.). This course will cover: 1) the basic principles of toxicology, including toxicokinetics, mechanisms of toxicity and the major causes of mortality; 2) the toxicology and treatment of the drugs that are the most important human poisons; and 3) how new drug entities are assessed and regulated for safety.

Lectures: Three hours per week.

Pharmacy 5005. Communication & Patient Counselling (F) (1 cr. hr.). This course focuses on the elements of effective interviewing and communication with patients, both written and verbal. Special approaches to selected patient populations will be discussed. Communication sessions are intended to develop self-confidence and interpersonal communication skills.

Lectures/Communication sessions: Two hours per week for six weeks.

Pharmacy 5009. Pharmacoepidemiology (F) (3 cr. hrs.). This course will cover: 1) the principles of epidemiology and its application in public health and the health services delivery system; 2) the methods used in pharmacoepidemiologic studies; 3) the use of pharmacoepidemiology to study the benefit risk and effectiveness of drugs; and 4) the use of clinical trials to establish the efficacy of new drugs.

Lectures: Three hours per week

Pharmacy 5017. Pharmaceutical Technology (F) (3 cr. hrs.). The principles governing the development and evaluation of novel delivery systems for drugs including therapeutic proteins and peptides. The course objectives are to provide knowledge of the physicochemical and biopharmaceutical aspects of the design, use and evaluation of novel drug delivery systems with emphasis on controlled release systems for oral and percutaneous delivery. The basic principles of the application of radiation and radioactive compounds in medical diagnosis and therapy, rationale for the use, preparation and quality control of radiopharmaceuticals is also discussed.

Lectures: Three hours per week.

Laboratory: Up to three hours per week. Attendance is required.

Pharmacy 5104. Therapeutics II (F) (8 cr. hrs.). will provide an understanding of the therapeutic management of common diseases. The student is introduced to the pathophysiologies of common disease states, current drug (prescription and non-prescription) and non-drug therapies, procedures used to monitor drug therapy for clinical response, adverse reactions, drug interactions and contraindications, and the process for distinguishing the rational from the irrational use of drugs. The appropriateness and effectiveness of self-medication treatments will also be discussed.

Lectures: Eight hours per week.

Tutorials: Two hours per week.

Pharmacy 500X. Clinical Clerkship (W). (18 cr. hrs). Provides experience in clinical practice. Students will participate as members of the health care team. They will be responsible for providing pharmaceutical care to patients. Activities will include attending patient care rounds, providing in-services and drug information, and participating in case presentations. Students will be evaluated periodically throughout the clerkship and will also be required to pass an exam.

Prerequisite: Successful completion of all course requirements for the degree, pass in all courses in the fall semester of the final year and attainment of an overall average of 65% in these courses.

Two six week modules, 35 hours per week. Attendance is required.

Pharmacy Electives

Pharmacy 501A/B. Pharmaceutical Research (F & W) (6 cr. hrs.). A two semester course involving supervised laboratory research on an original scientific problem in pharmaceuticals, pharmacology, medicinal chemistry, pharmaceutical technology, or therapeutics. A thesis is to be submitted as a formal written document before the end of the 11th week of the Winter Semester. In addition, an oral presentation is to be given to the School before the end of the Winter Semester.

Prerequisite: Consent of the Undergraduate Studies Committee.

Pharmacy 5013. Hospital Pharmacy Administration (F) (3 cr. hrs.). This course will cover the organization, financial controls and human resources management of hospital pharmacy services and their development. New trends affecting hospital pharmacy services will be discussed.

Lectures/Tutorials: Three hours per week.

Prerequisite: No prerequisite but a studentship in hospital pharmacy would be an asset. Permission of the instructor is required."

57.5 School of Social Work

Page 440, 2002-2003 Calendar, following the heading Course Descriptions, delete the course description for "3211" in its entirety and replace with the following:

"This first foundation course addresses a number of social and behavioural theories and concepts and considers them within the context of major schools of thought for understanding human behaviour and development from a social work perspective. The primary focus is on how theories and information guide social work interventions with individuals and families.

Prerequisites: Psychology 2010, 2011, and 2012."

Delete the course description for "3220." in its entirety and replace with the following:

"This second foundation course, normally taught concurrently with Social Work 3211, addresses a number of social, economic, political and behavioural theories and concepts from a social work perspective. The primary focus is on how these theories and information guide social work interventions with society and social groups.

Prerequisites: Psychology 2010, 2011, and 2012."

Delete the course "3320" in its entirety and replace with the following:

"3320. Social Work Practice: Interviewing and Professional Communication. This course, normally taken concurrently with Social Work 3220 and Social Work 3211 provides practical application of the theories covered in these courses. This course introduces students to the use of professional relationships, communication and interviewing skills. Attention is given to the development of self-awareness, beginning counselling skills and professional identity.

Co-requisites: Social Work 3211 and 3220 or consent of instructor."

Delete the course description for "3321." in its entirety and replace with the following:

"The focus of this course is the development and application of self awareness and theoretical learning with beginning practice skills. Developing awareness of and an ability to apply anti-oppressive practice stance and values in the creation of a biopsychosocial assessment will be emphasized. Upon completion of this course, it is expected that students will be able to conduct and write a biopsychosocial assessment.

Prerequisites: Social Work 3211 and 3220 or consent of instructor.

NOTE: Credit may not be obtained for both Social Work 3321 and the former Social Work 4310."

Delete the course "3520." in its entirety.

Insert the following new course:

"3421. The Process of Change: Middle and End Phase Interventions. This course introduces students to the concept and process of change at both the micro and macro levels of social work practice. This course focuses on the theories, concepts and skills that enable the social worker to take informed professional action in the middle and end phases of intervention to facilitate positive change.

Prerequisite: Social Work 3320

Co-requisite: Social Work 3321

NOTE: Credit cannot be obtained for this course and the former Social Work 3520."

Delete the course "4311." in its entirety replace with the following:

"4311. Social Work Practice: Counselling and Case Management with Individuals and Families in a Community Context. This is an intervention course which focuses on selected models of practice with individuals and families. Students are introduced to methods and skills derived from a number of theories as applied to social work with an emphasis on work with individuals. Attention will be given to building awareness of links between theory and practice. This course may have a required laboratory period that is in addition to class time. The distance version of the course may include workshops that may be held outside the area in which students are attending placement.

Prerequisites: Social Work 3211, 3220, 3320, 3321.

Co-requisites: Social Work 4315, 4316, 4325, 4326 or equivalent with consent of the Instructor and Field Administrator.

NOTES: 1) Credit cannot be obtained for both Social Work 4311 and the former Social Work 4310.

2) Part-time students who are employed in a Social Work position may be permitted, with the consent of the course instructor and Part-time Studies Coordinator, to take Social Work 4311 and Social Work 4320 without the co-requisites."

Delete the course "4320." in its entirety and replace with the following:

"4320. Social Work Practice: Counselling and Case Management with Groups and Communities. This is an intervention course where students are introduced to methods and skills derived from a number of theories as applied to social work with groups and communities with a special emphasis on groups. This course builds directly on constructs and theories introduced in Social Work 4311. This course may have a required laboratory period that is in addition to class time. The distance version of the course may include workshops that may be held outside the area in which students are attending placement.

Prerequisite: Social Work 4311."

Delete the course "5324." in its entirety.

Page 436, 2002-2003 Calendar, following the heading A. Bachelor of Social Work as a First Degree, subheading Program of Study, delete clause "2." in its entirety and replace with the following:

"2. A candidate shall also complete the following 84 credit hours in Social Work:

- Social Work 2510, 2700;
- Social Work 3211, 3220, 3320, 3321, 3421, 3510;
- Social Work 4311, 4315, 4316, 4320, 4325, 4326, 4421, 4520;
- Social Work 5315, 5316, 5317, 5318, 5319, 5322, 5325, 5720;
- twelve credit hours in Social Work electives."

Page 436, 2002-2003 Calendar, following the heading A. Bachelor of Social Work as a First Degree, subheading Program of Study, delete clause "3." in its entirety and replace with the following:

"3. Recommended program of study:

**Fall Semester
Year 1**

English
Psychology
Sociology
Schedule A elective
Schedule A elective

Winter Semester

English
Psychology
Three credit hours in either
Anthropology, Geography,
or Political Science
Schedule A elective
Schedule A elective

Year 2

Social Work 2700
*Psychology 2010
*Psychology 2011
Three credit hours chosen
from Philosophy
2800-2810 or Women's
Studies 2000
Schedule A elective

Social Work 2510
*Psychology 2012
Sociology
Schedule A elective
Schedule A elective

Year 3

Social Work 3211
Social Work 3220
Social Work 3320
Schedule A elective
Schedule A elective

Social Work 3510
Social Work 3421
Social Work 3321
Schedule A elective
Schedule A elective

Year 4

Social Work 4311	Social Work 4320
Social Work 4315	Social Work 4421
Social Work 4316	Social Work 4520
Social Work 4325	Social Work elective
Social Work 4326	Social Work elective

Year 5

Social Work 5325	Social Work 5315
Social Work 5322	Social Work 5316
Social Work 5720	Social Work 5317
Social Work elective	Social Work 5318
Social Work elective	Social Work 5319"

Page 435, 2002-2003 Calendar, following the heading School of Social Work, amend the third paragraph to read as follows:

"In addition to course work...Students are expected to accept placements in setting throughout the province..."

Page 435, 2002-2003 Calendar, following the heading School of Social Work, immediately following the second paragraph, insert the following:

"In keeping with Memorial University's and the School of Social Work's traditional commitments to serve the people of Newfoundland and Labrador within a global context, all BSW courses are designed and delivered on a philosophical base of humanism and social justice. This is accomplished through the application of anti-oppression practice principles in an empowering teaching and learning environment within the context of critical thinking.

Courses are taught either on campus and/or via distance delivery. Distance delivery means instruction will not take place in a regular classroom. Instead, the course will be delivered using any or all of web-based format, traditional correspondence (reading packages, mailed assignments), and teleconference."

Page 436, 2002-2003 Calendar, following the heading A. Bachelor of Social Work as a First Degree, subheading Program of Study, delete clause "6." in its entirety and replace with the following:

"6. Included in the Social Work curriculum is the requirement of field placements. Although consideration will be given to all factors affecting the location and type of field placements, the final decision regarding placement rests with the School. Students have the same obligation and responsibility for financial self-support in field placement as they do for other academic locations. Placements for most students will include residence in a centre away from St. John's, Mount Pearl and Corner Brook normally in the final year of the program. Placements will provide students with opportunity to acquire skills

associated with both urban and rural practice. Each student should expect to develop these skills by completing placements in urban centres and rural communities."

Page 436, 2002-2003 Calendar, following the heading A. Bachelor of Social Work as a First Degree, under subheading Admission/Re-Admission, delete Clause 5 in its entirety and replace with the following:

"5. Admission and re-admission to the School of Social Work is on the basis of competition for a limited number of places. Selection of candidates will be based on academic standing, relevant work/volunteer experience, and personal suitability for a career in social work. Academic standing for the purpose of selection of candidates is defined as the candidate's overall academic performance, average in the last thirty (30) credit hours and in the forty-five (45) prerequisite credit hours noted above. The School may, at its discretion, give preference to applicants with special needs, provided that they have met the minimum grade and course requirements for admission to the School."

57.6 School of Music

Page 213, 2002-2003 Calendar, immediately preceding the heading Concentration in Music under Clause 2(F) of the Bachelor of Education (Primary) and Bachelor of Education (Elementary), insert the following new program:

"INTERDISCIPLINARY MINOR IN MUSIC AND CULTURE

1. This minor is available to students in the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Commerce (Cooperative), Bachelor of Recreation, Bachelor of Recreation (Honours), Bachelor of Recreation (Cooperative), and Bachelor of Recreation (Cooperative) (Honours). The minor in Music and Culture is not applicable to the Bachelor of Music degree.

2. Students shall complete 25 credit hours for the minor in music and culture, as follows:

- a) Music 1120 OR Music 1107.
- b) Music 1116 OR Music 1117.
- c) Music/Folklore/Anthropology 4440.
- d) Music 2012 OR 2013.
- e) One of Music 2011, Music 3017/Folk 3200, and Music 3018/Folk 3618.
- f) One of Music 3014, 3015, and 3016.
- g) One of Music 2021, 2022, and 2023.
- h) Two additional courses chosen from Music 1108 or the courses listed in d), e), f), or g) above."

Page 141, 2002-2003 Calendar, following the heading Regulations for the General Degree of Bachelor of Arts, subheading 4. The Minor Program, immediately preceding clause f), insert new clause f) as follows:

"f) A Minor in Music and Culture is available in the School of Music. This program is governed by regulations which are detailed under the Calendar entry for the School of Music."

Re-letter current clauses "f) - i)" as "g) - j)".

Page 209, 2002-2003 University Calendar, following the heading School of Music, subheading Programs, under the list of programs, insert immediately following "Interdisciplinary Major in Drama and Music (Bachelor of Arts)" the following program:

"Interdisciplinary Minor in Music and Culture"

57.7 Department of English

Page 163, 2002-2003 Calendar, under the heading, Course List, delete the course 4990 in its entirety.

Page 163, 2002-2003 Calendar, under the heading, Honours Degree with English as Major Subject, delete clause 4 in its entirety and replace with the following:

"4. In their final year, all Honours candidates are required to present an Honours Essay (4999); the topic of the Honours Essay is to be approved by the Head."

57.8 Drama and Music Major Program

Page 156, 2002-2003 Calendar, under the heading, Drama and Music, subheading, b) School of Music - Music Courses, clause i), amend bullet 2 to read as follows:

"Music 1107, 1108, 1117, 1118, 1127 or 1137, and 1128 or 1138"

57.9 Department of Classics

Page 155, 2002-2003 Calendar, under the heading, Course List, subheading, Courses in Greek, delete course "1130 and 1131" in its entirety and replace with the following:

1130. Elementary Ancient Greek I. Introduction to the grammar and syntax of ancient Greek, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

NOTE: Students may not receive credit for Classics 1130 and the former Classics 130A.

1131. Elementary Ancient Greek II. A continuation of the work begun in Elementary Ancient Greek I.

NOTE: Students may not receive credit for Classics 1131 and the former Classics 130B.

Prerequisite: Classics 1130 or its equivalent."

Page 155, 2002-2003 Calendar, under the heading, Course List, subheading, Courses in Latin, delete the course "1120 and 1121" in its entirety and replace with the following:

"1120. Elementary Latin I. Introduction to the grammar and syntax of Latin, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

NOTE: Students may not receive credit for Classics 1120 and the former Classics 120A.

1121. Elementary Latin II. A continuation of the work begun in Elementary Latin I.

NOTE: Students may not receive credit for Classics 1121 and the former Classics 120B.

Prerequisite: Classics 1120 or its equivalent."

57.10 Department of Sociology

Page 200, 2002-2003 Calendar, under the heading Sociology, subheading Minor, under Minor Option, add the following courses to "Table 1":

"4071"

"4092"

Page 201, 2002-2003 Calendar, under the heading Course List, delete the "Note" for course "4170".

57.11 Department of Sociology/Anthropology Interdisciplinary Program

Page 202, 2002-2003 Calendar, following the heading Sociology/ Anthropology Interdepartmental Studies Program, subheading Honours Program, delete clause a) and b) in its entirety and replace with the following:

"To be accepted into the Honours Program, a student must submit an "Application for Admission to Honours Program" form to the S/A Program Supervisor. A successful applicant will not only meet the criteria laid out in the Regulations for the Honours Degree of Bachelor of Arts, but also have a proposal accepted for an honours essay research topic, for which the student has identified a faculty member who has indicated willingness to act as supervisor.

Honours students are required to complete at least 60 credit hours of S/A, Anthropology and Sociology courses, including all courses required for the Major in Sociology/Anthropology, of which at least 39 credit hours must be in S/A courses. The courses must include either S/A 4990 or 4991 and must meet the requirements outlined in the Regulations for the Honours Degree of Bachelor of Arts."

57.12 Newfoundland Studies Minor Program

Page 191, 2002-2003 University Calendar, under the heading Newfoundland Studies, subheading Regulations, under clause 1)a), amend the sixth bullet to read as follows:

"- Geography 3290, 3490*, 3495"

Immediately following the eighth bullet, insert the following:

"- Music 2021, 2022, 2023 (a maximum of 3 credit hours)"

Under clause 1)b), amend the fourth bullet to read as follows:

"- Geography 4301*"

Immediately preceding clause 1)c), insert the following note:

"NOTE: Students should consult the Program Supervisor on the applicability of special topics and other courses that have a high level of Newfoundland and/or Labrador content. The Program Supervisor can then seek permission for the inclusion of such courses in the student's minor program."

57.13 Department of Linguistics

Page 187, 2002-2003 Calendar, following the heading Course Descriptions, delete the course 3155 in its entirety and replace with the following:

"3155. Introduction to Language Acquisition. This course will examine a number of critical issues in the first and second language acquisition of syntax and phonology. Current generative approaches to first and second language acquisition will be covered, which will be exemplified with data from different languages. An introduction to phonological and syntactic speech disorders will also be offered.
Prerequisites: Linguistics 2103 and 2104."

Page 187, 2002-2003 Calendar, following the heading Course Descriptions, subheading 2. Selected Languages: Ancient and Modern, insert the following course:

"4150. Language Acquisition II. This course will provide a comprehensive evaluation of recent theoretical and experimental work in first and second language development. Topics will be discussed in light of current approaches to first and second language acquisition research.
Prerequisite: Linguistics 3155."

57.14 Sir Wilfred Grenfell College

Page 101, 2002-2003 Calendar, under the heading Bachelor of Fine Arts (Visual Arts), subheading Academic Performance, delete the last sentence of clause 4.

Immediately following clause "5.b)", insert the following new clause 6:

"6. A candidate will be denied graduation if, at the end of the final semester of the Visual Arts Program:

a) The candidate's cumulative average in Visual Arts courses required for the program falls below 65%.

OR

b) The candidate's term average in Visual Arts courses falls below 65% in each of his/her last two consecutive semesters of enrolment in the program.

A candidate denied graduation for either of these reasons will be permitted to register for VA courses without a waiting period and re-application, and is not bound by Regulation 8 (below)."

Renumber current clauses "6. to 10." as "7. to 11."

Page 121, 2002-2003 Calender, under the heading Visual Arts, subheading 2nd Year, delete the prerequisites for each of the following courses:

"2000. Second year drawing I.
2100. Intro Painting.
2200. Intro Sculpture I.
2310. Intro Printmaking: Relief.
2311. Intro Printmaking: Intaglio.
2320. Intro Printmaking: Serigraphy.
2321. Intro Printmaking: Lithography.
2400. Intro Photography 1."

Replace all of the above noted course prerequisites with the following:

"Prerequisite: Visual Arts 100A/B, 110A/B, and 120 A/B."

Page 121, 2002-2003 Calender, following the heading Visual Arts, subheading 2nd Year, delete the phrase, "(same as former XXXA or XXXB)" from the following courses:

"2000. Second Year Drawing I.
2001. Second Year Drawing II.
3000. Intermediate Drawing I.
3001. Intermediate Drawing II.
3100. Intermediate Painting I.
3101. Intermediate Painting II.
3200. Intermediate Sculpture I.
3201. Intermediate Sculpture II.
3310. Intermediate Relief and/or Intaglio I.
3311. Intermediate Relief and/or Intaglio II."

3320. Intermediate Serigraphy and/or Lithography I.
3321. Intermediate Serigraphy and/or Lithography II.
3400. Intermediate Photography I.
3401. Intermediate Photography II.
3500. Multi-media I.
3501. Multi-media II."

Page 121, 2002-2003 Calendar, under the heading Art History Courses, delete the prerequisites for each of the following courses:

4700-4729. Art History: Special Topics.
4740. Current Issues in Art.
4741. Art Criticism.

Page 123, 2002-2003 Calendar, under the heading, Art History Courses, delete the course description for 3702-3721 in its entirety and replace with the following:

"The range of special topics might include:

- Early Renaissance Art
- Art of the Later Renaissance
- Canadian Art to 1900
- 20th C. Canadian Art
- American Art to 1900
- Historical Context and Modern Users"

Page 123, 2002-2003 Calendar, under the heading Art History Courses, delete the course description for 4700-4729 in its entirety and replace with the following:

"The range of senior topics might include:

- British Art and Architecture
- Modern Art
- Modern Art II
- Aesthetics
- 17th and 18th Century Art
- 19th Century Art
- Research Project in Modernism"

Page 102, 2002-2003 Calendar, under the heading Degree Regulations, delete the Table of Credit Restrictions for Present Visual Arts Courses with Former Visual Arts Courses in its entirety.

Page 123, 2002-2003 Calendar, under the heading, Art History Courses, delete the course 4730 in its entirety and replace with the following:

"4730. Art History: Modern Art I: Precursors to Modernism. (Same as History 4730) An examination of the cultural, social, and political forces which, from 1750 to 1850, were to have a major impact on modernity and later modern art.
Prerequisites/Co-requisites: Six credit hours in art history or permission of the chair of the Visual Arts Program"

Page 123, 2002-2003 Calendar, under the heading Art History Courses, delete the course 4731 in its entirety and replace with the following:

"4731. Art History: Modern Art II: Early Modernism. (Same as History 4731) An examination of the various cultural and social forces between 1850 and 1914 which shaped the rise of the Modern movement.
Prerequisites/Co-requisites: Six credit hours in art history or permission of the chair of the Visual Arts Program"

Page 113, 2002-2003 Calendar, under the heading History, delete the course 4730 in its entirety and replace with the following:

"4730. Art History: Modern Art I: Precursors to Modernism. (Same as Visual Arts 4730) An examination of the cultural, social, and political forces which, from 1750 to 1850, were to have a major impact on modernity and later modern art.
Prerequisites/Co-requisites: Six credit hours in art history or permission of the chair of the Visual Arts Program"

Page 113, 2002-2003 Calendar, under the heading History, delete the course 4731 in its entirety and replace with the following:

"4731. Art History: Modern Art II: Early Modernism. (Same as Visual Arts 4731) An examination of the various cultural and social forces between 1850 and 1914 which shaped the rise of the Modern movement.
Prerequisites/Co-requisites: Six credit hours in art history or permission of the chair of the Visual Arts Program"

57.15 Faculty of Engineering and Applied Science

Page 395, 2002-2003 Calendar, under the heading Course List, subheading Term 4 Courses, delete the course 4708 in its entirety.

Page 395, 2002-2003 Calendar, under the heading Course List, subheading Term 5 Courses, insert the following new course:

"5708. Design of Civil Engineering Systems. Introduction to civil engineering systems, optimization in design, risk and decision analysis, and measurements; risk management, uncertainty associated with competition, optimizing using mathematical programming; introduction to dynamic programming and network analysis; applications of systems techniques to various subdisciplines of civil engineering."

Delete the course "5723" in its entirety.

Page 395, 2002-2003 Calendar, under the heading Course List, subheading Term 4 Courses, insert the following new course:

"4723. Geotechnical Engineering I. Introduction to soil as a three-phase material; physical and mechanical properties; structure; classification of soils; hydraulic properties; permeability; effective stress concept in soils; shear strength, types of tests and applications; one-dimensional consolidation theory. Relevant laboratory exercises."

Page 379, 2002-2003 Calendar, delete the table Civil Engineering Curriculum in its entirety and replace with the following:

"

CIVIL ENGINEERING CURRICULUM					
TERM 3	TERM 4	TERM 5	TERM 6	TERM 7	TERM 8
3610 EARTH SCIENCES	4102 ENGR ECONOMICS	COMPLEMENTARY STUDIES ELECTIVE	6101 ASSESS OF TECHNOLOGY	7704 DESIGN OF STEEL STRUCTURES	8700 C.E. PROJECT
3703 SURVEYING GEOMATICS	4312 MECHANICS SOLIDS I	5312 MECHANICS OF SOLIDS II	6705 STRUCTURAL ANALYSIS I	7713 HYDROLOGY & WATER RES	8745 HIGHWAY ENGINEERING
3844 ELECT COMP & SYSTEMS	4322 THERMAL SCIENCES	5708 CIVIL ENGR SYSTEMS	6723 GEOTECH ENGR II	7716 HYDROTECHNICAL ENGR	8749 CONSTR PLAN
3423 PROBABILITY & STATISTICS	4717 APPLIED ENVIR SCIENCE & ENGR	5713 FLUID MECHANICS	6713 HYDRAULICS	7748 PROJ PLAN & CONTROL	T.E.
3731	4422	5706	6707	T.E.	T.E.

MATERIALS OF CONSTR	NUMERICAL METHODS	CONCRETE STRUCTURES	CONCR & MASON STR		
COMPLEMENTARY STUDIES ELECTIVE (Fast Track Students Only)	4723 GEOTECH ENGR I	5434 APPLIED ANALYSIS	6740 CONT LAW & LAB REL		

Technical Electives (T7): 7706 - Structural Analysis II, Electives from OUGE Option.
 Technical Electives (T8): 8705 - Structural Building Systems, 8713 - Municipal Engineering, Electives from OUGE Option.

Additional electives chosen from courses listed in the Calendar may be selected. A list of current offerings is available from the Discipline Chair and the Associate Dean (Undergraduate)."

Page 380, 2002-2003 Calendar, delete the table Civil Engineering - Offshore Oil and Gas Option, and replace with the following:

"

CIVIL ENGINEERING CURRICULUM - OFFSHORE OIL AND GAS OPTION					
TERM 3	TERM 4	TERM 5	TERM 6	TERM 7	TERM 8
3610 EARTH SCIENCE	4422 INTRO. TO NUM. METHODS	COMPLEMENTARY STUDIES ELECTIVE	6705 STRUT. ANALYSIS	7748 PROJECT PLANNING	8600 OUGE PROJECT
3703 SURVEYING	4102 ENGR. ECON.	5708 CIVIL ENGR. SYSTEMS	6723 GEOTECH. II	7706 STRUCTURAL ANALYSIS II	8748 CONSTRUCTION PLANNING
3423	4312	5312	6740	7704	CE ELECTIVE

PROB. & STATS.	MECH. OF SOLIDS I	MECH. OF SOLIDS II	CONTRACT LAW	STEEL DESIGN	
3844 BASIC ELEC. COMP. & SYS.	4322 THERMAL SCIENCE	5713 FLUIDS	6101 ASSESS. OF TECH.	7601 GEO. APP. IN OFFSHORE ENGR.	OUGE ELECTIVE
3731 CE MATERIALS	4717 ENV. SCI/ENGR.	5706 CONCRETE STRUCTURES	6601 INTRO. OFFSHORE PET. ENGR.	OUGE ELECTIVE	OUGE ELECTIVE
	4723 GEOTECH ENGR I	5434 APP. ANALYSIS	6713 HYDRAULICS		

NOTE: Bold and OUGE slots are courses from the Offshore Oil and Gas Engineering Option

Common Courses

6601. Introduction to Offshore Petroleum Engineering
7601. Geosciences Applied in Offshore Engineering
8600. Offshore Oil and Gas Engineering Project.

Electives

7602. Subsea Engineering
7603. Ocean Ice Engineering
7680. Supervisory Control and Data Acquisition
8680. Process Control and Instrumentation
8670. Reliability Engineering
8671. Safety and Risk Engineering
8672. Environmental Aspects of Offshore Oil Development
8673. Subsea Geotechnical Engineering
8674. Design for the Ocean and Ice Environments
8675. Offshore Structures and Materials

- 8690. Reservoir Engineering
- 8691. Petroleum Production Engineering
- 8692. Drilling Engineering for Petroleum Exploration and Production
- 8693. Petroleum Facilities Engineering
- 8694. Downstream Processing"

Page 393, 2002-2003 Calendar, under heading Examinations and Promotions, subheading Academic Terms, delete clause 5 in its entirety and replace with the following:

"5) Students registered in Engineering for academic Term B must have completed a minimum of 30 credit hours and satisfy the following criteria to be able to be promoted to academic Term 1:

a) The student must obtain credit in each of the following courses: English 1080 (or equivalent) or English 1020, Chemistry 1051 or 1011 (or equivalent), Physics 1021, and Mathematics 1001.

b) The student must obtain 3 credit hours in each of Chemistry, Physics, and Mathematics, in addition to those specified in (a).

c) The student must obtain 9 credit hours in addition to those specified in (a) and (b). At least 6 credit hours of these must be complementary studies electives (see the section COMPLEMENTARY STUDIES COURSES on page 391). Students who have completed only 3 credit hours in complementary studies may be admitted to the program in which case they will be required to obtain 3 more credit hours prior to graduation.

d) The student must obtain an average of 65% in the set of courses comprising Chemistry 1051 or 1011 (or equivalent), Physics 1021 and Mathematics 1001, English 1080 (or equivalent) or English 1020, and 3 credit hours of complementary studies.

e) The student must obtain at least 60% in each of Chemistry 1051 or 1011 (or equivalent), Physics 1021, and Mathematics 1001."

Page 391, 2002-2003 Calendar, under heading Engineering Regulations, amend clause (c) to read as follows:

"(c) Except as noted in (d) below, a request for exemption..."

Insert the following new clause (d):

"(d) With sufficient justification, students in academic terms 7 and 8 may be permitted to substitute one of the listed technical electives in each term with an appropriate course from another engineering program or another academic unit within the university. Such a substitution requires the permission of the appropriate Discipline, which will normally consider whether the substitution is consistent with the student's program and career objectives as well as whether the substituted course is suitable for a final year engineering

student. In such cases, it is the student's responsibility to make sure he/she is qualified to register for the proposed course."

Renumber current "(d)" to "(e)".

Page 393, 2002-2003 Calendar, under heading Examinations and Promotions, subheading Work Terms, delete clause "22)" in its entirety and replace with the following:

"22) A student may be exempted from any work term requirements if he or she submits medical and/or other evidence to support such exemption, to the Undergraduate Studies Committee through the Office of Co-operative Education. Also see Note (e) under Engineering Regulations."

Page 401, 2002-2003 Calendar, immediately following the heading Term 8 Courses, delete the *NOTE* in its entirety.

Page 385, 2002-2003 Calendar, delete the table Mechanical Engineering Curriculum: Design and Manufacturing in its entirety and replace with the following:

MECHANICAL ENGINEERING CURRICULUM					
TERM 3	TERM 4	TERM 5	TERM 6	TERM 7	
3205 CHEMISTRY & PHYSICS OF ENGINEERING MATERIALS II	4102 ENGINEERING ECONOMICS	COMPLEMENTARY STUDIES ELECTIVE	3423 PROBABILITY & STATISTICS	7936 MECHANICAL PROJECT I	M I
3844 BASIC ELECTRICAL COMPONENTS & SYSTEMS	4312 MECHANICS OF SOLIDS I	5312 MECHANICS OF SOLIDS II	6101 ASSESSMENT OF TECHNOLOGY	7901 HEAT TRANSFER II	M
3901 THERMO- DYNAMICS I	4422 INTRODUCTION	5435 ADVANCED	6901 HEAT	7903 MECHANICAL	T

	TO NUMERICAL METHODS	CALCULUS	TRANSFER I	EQUIPMENT	
3933 MECHANISMS & MACHINES	4901 THERMO- DYNAMICS II	5925 MECHANICAL COMPONENT DESIGN I	6925 AUTOMATICS CONTROL ENGINEERING	7962 COMPUTER AIDED ENGINEERING	T
3941 PRODUCTION TECHNOLOGY	4913 FLUID MECHANICS I	5913 FLUID MECHANICS II	6926 MECHANICAL COMPONENT DESIGN II	TECHNICAL ELECTIVE	T
COMPLEMENTARY STUDIES ELECTIVE (Fast Track Only)	4933 ELECTRO/ MECHANICAL SYSTEMS	5932 MECHANICAL VIBRATIONS	6972 INDUSTRIAL MATERIALS		

NOTES: 1) Some of the technical electives listed above may not be offered every year. A list of the current offerings is available from the Discipline Chair and the Associate Dean (Undergraduate).

2) Students are permitted to replace a maximum of two technical electives listed above with two OUGE technical electives (listed on p. 386).

Page 401, 2002-2003 Calendar, under the heading Term 8 Courses, delete the course "8956." in its entirety.

57.16 Faculty of Education

Page 282, 2002-2003 Calendar, under the heading Regulations for the Degree of Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education, delete clause 1) in its entirety and replace with the following:

"1) A candidate for the degree of Bachelor of Education (Intermediate/ Secondary) conjoint with the Diploma in Technology Education shall complete, in addition to the courses required for the prerequisite degree, 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 Re-admission and Advancement for this program."

Amend clauses 3) to read as follows:

"3) The 27 credit hours in Intermediate/Secondary Education shall include:"

Delete clause 3)b) in its entirety and replace with the following:

"b) Nine credit hours in electives chosen from the list below:

Education 2222, 2900, 3210, 3211, 3255, 3565, 3570, 3571, 4144, 4151, 4163, 4172, 4182, 4204, 4240, 4242, 4275, 4340, 4350, 4354, 4356, 4382, 4420, 4425, 4480, 4580, 4610."

Delete clause 4) in its entirety and replace with the following:

"4) The 24 credit hours in Technology Education shall include:

a) Education 2711, 2750, 2751, 3750, 3751, 4750, 4751, 4752."

Page 282, 2002-2003 Calendar, under heading Regulations for the Degree of Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education, subheading Program Plan, delete the table entitled "***Semester 2 (Fall)" in its entirety and replace with the following:

***SEMESTER 2 (Fall)

Classroom Observation (No Credit)
Education 4361 (Teaching and the Contemporary Classroom)
Education 4005 (Effective Teaching)
Education 4260 (Nature of Adolescence)
One Method Course (from 3.a.ii) and Education 4751 (Advanced Communications Systems)
Education 4950 (Evaluation of Teaching and Learning)

"

Delete the table entitled, "*Semester 4 (Spring)" and replace with the following:

"*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)

"

Page 288, 2002-2003 Calendar, under the heading Course Descriptions, delete the course title for "3943" in its entirety and replace with the following:

"3943. Curricular Uses of Computers (PE, IS, NS)."

Under the heading, Course Descriptions, delete the course title for course 4945 and replace with the following:

"4945. Computers in Education (IS)."

Page 277, 2002-2003 Calendar, under the heading Registration in Education Courses (Non-Education Students), delete the list of courses immediately following the first paragraph and replace with the following:

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

Page 278, 2002-2003 Calendar, under the heading Regulations for the Degree of Bachelor of Education (Primary/Elementary), subheading Focus Areas, delete the section entitled French (18 credit hours) in its entirety and replace with the following:

"French (18 credit hours):

- ? A maximum of 6 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)."

Following the subheading Focus Areas, delete the section entitled Geography (18 credit hours), in its entirety and replace with the following:

"Geography (18 credit hours):

? 1050, 2001, 2102, 2195, 2302, and an additional 3 credit hours

OR

? 1000 and 1001 OR 1010 and 1011, and 2001, 2102, 2195, and 2302"

Page 288, 2002-2003 Calendar, under the heading Course Descriptions, delete the prerequisite for course 3040 and replace it with the following:

"Prerequisite: Education 3543, or former 3540 or 3545."

Add the following prerequisite for course 3515:

"Prerequisite: Education 3543, or former 3540 or 3545."

Add the following co-requisite to course 4175:

"Co-requisite: Education 4174"

Add the following co-requisite to course 4181:

"Co-requisite: Education 4180"

Page 288, 2002-2003 Calendar, under the heading, Course Descriptions, delete the following courses in their entirety:

"Education 2610"

"Education 4360"

"Education 4380"

Page 295, 2002-2003 Calendar, following the heading Student Teaching, immediately following the first paragraph, insert the following:

"NOTE: Attendance in the Internship, Education 401X, 403X, 404X, 405X, is mandatory. With respect to holidays, interns follow the schedule of the school and not that of the University."

Page 280, 2002-2003 Calendar, under the heading Regulations for the Degree of Bachelor of Education (Intermediate/Secondary), delete clause 3)b) in its entirety and replace with the following:

"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 and 4350."

Page 282, 2002-2003 Calendar, following the heading Bachelor of Music Conjoint with Bachelor of Music Education, immediately preceding the subheading Admission, insert the following paragraph:

"The Bachelor of Music Education Program is designed to prepare music teachers in all facets of school music education - primary, elementary, intermediate/secondary classroom music as well as choral and instrumental music education. The program consists of 30 credit hours of course work in music education and general foundational education and a 15 credit hour teaching internship. The program is delivered in two formats: Bachelor of Music Conjoint with Bachelor of Music Education and Bachelor of Music Education as a Second Degree."

Page 283, 2002-2003 Calendar, following the heading Regulations for the Conjoint Degrees of Bachelor of Music and Bachelor of Music Education, delete clause 2) a) in its entirety and replace with the following:

"a) Education 3618 or 3619"

Page 283, 2002-2003 Calendar, under the heading, Regulations for the Bachelor of Music Education as a Second Degree, delete clause 3) a) and replace with the following:

"a) Education 3618 or 3619"

Page 288, 2002-2003 Calendar, under the heading Course Descriptions, delete the course title for 3640 in its entirety and replace with the following:

"3640. Current issues in Special Education (PE, SE)."

Page 279, 2002-2003 Calendar, under the heading Bachelor of Education (Intermediate/Secondary), subheading Admission, following clause 3), delete "Folklore" and "Linguistics" from the list of Academic Disciplines.

Page 280, 2002-2003 Calendar, under the heading Regulations for the Degree of Bachelor of Education (Intermediate/Secondary), delete clause 3) a)(ii) in its entirety and replace with the following:

"(ii) Two of the following: Education 4120, 4121, 4142, 4154, 4161, 4168, 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 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."

Page 281, 2002-2003 Calendar, under the heading Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education, subheading Admission, following clause 3), delete "Folklore" and "Linguistics" from the list of Academic Disciplines.

Page 282, 2002-2003 Calendar, following the heading Regulations for the Degree of Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education, delete clause 3)a)(ii) in its entirety and replace with the following:

"(ii) One of the following: Education 4120, 4121, 4142, 4154, 4161, 4168, 4174, 4180, 4181, 4190, 4203. 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 4714. Those whose area is Social Studies (academic disciplines of Canadian Studies, Economics, Geography, History, Newfoundland Studies, and Political Science) are required to do Education 4180."

Page 288, 2002-2003 Calendar, under the heading Course Descriptions, delete the course 4143 in its entirety.

57.17 Department of Mathematics and Statistics

Page 228, 2002-2003 University Calendar, following the heading Degree Regulations, amend the subheading Regulations to Govern Supplementary Examinations in the Departments of Biochemistry and Physics and Physical Oceanography, to read as follows:

"REGULATIONS TO GOVERN SUPPLEMENTARY EXAMINATIONS IN THE DEPARTMENTS OF BIOCHEMISTRY, MATHEMATICS AND STATISTICS, AND PHYSICS AND PHYSICAL OCEANOGRAPHY"

Page 228, 2002-2003 University Calendar, following the heading Degree Regulations, subheading Regulations to Govern Supplementary Examinations in the Departments of

Biochemistry, Mathematics and Statistics, and Physics and Physical Oceanography,
amend clause "1)" to read as follows:

"1) Supplementary examinations will be allowed in certain of the Biochemistry and Physics courses and all Mathematics and Statistics courses which have...for the course."

57.18 Department of Biochemistry

Page 238, 2002-2003 University Calendar, following the heading Program and Course Descriptions, subheading Biochemistry, subheading Programs, immediately following the first paragraph amend the third bullet to read as follows:

"- Major or Honours in Dietetics - See IMPORTANT NOTE on page 239 under Professional Program in Dietetics"

Page 239, 2002-2003 University Calendar, following the heading Professional Program in Dietetics, immediately following the first paragraph, delete the note and replace with the following:

"

IMPORTANT NOTE: No more students will be admitted to this program after September 2003. Students admitted before September 2003 will be able to complete their programs according to the regulations in effect in the 2002-2003 Calendar. It is planned that the undergraduate program in Dietetics will be replaced by a new program based at the graduate level, details of which should become available during the 2003-2004 academic year. Undergraduate students interested in pursuing careers in Dietetics should contact the Department of Biochemistry at their earliest convenience for information and advice.

"

Page 238, 2002-2003 University Calendar, following the heading Program and Course Descriptions, subheading Biochemistry Program, subheading Major in Biochemistry, immediately preceding the third paragraph "Required courses to complete the major", delete clause "d)" in its entirety and replace with the following:

"d) Biology 1001, 1002 or two first-year University level courses in Physics."

Immediately following the third paragraph "Required courses to complete the major:", delete clause "d)" in its entirety and replace with the following:

"d) Biology 1001 and 1002; Mathematics 1001; and Physics 1020, 1021, 1054 or Physics 1050, 1054 for those students who did not complete them in first year."

Delete clause "g) and h)".

Immediately following clause "d)" Insert the following new clause "e)":

"e) Chemistry 1031 which is strongly advised to be taken prior to second year for those students who complete Chemistry 1010 and 1011 in first year. See Note 2 below.

Delete clause "i)" and renumber current clauses "e) and f)" as "f) and g)".

Immediately following amended clause g), delete note in its entirety and replace with the following:

"NOTES: 1) Students are required to complete at least 78 credit hours in Science courses for the General Degree.

2) Majors who take Chemistry 1010/1011 but not Chemistry 1031 as part of their first year sequence risk waiting a whole year before they can continue taking Biochemistry program courses."

Page 238, 2002-2003 University Calendar, under heading Program and Course Descriptions, subheading Honours Degree in Biochemistry, delete clause e) in its entirety and replace with the following:

"e) Biology 1001 and 1002; Mathematics 1001; and Physics 1020, 1021, 1054 or Physics 1050, 1054 for those students who did not complete them in first year."

Immediately following clause "e)", insert new clause "f)" which reads as follows:

"f) Chemistry 1031 which is strongly advised to be taken prior to second year for those students who complete Chemistry 1010 and 1011 in first year. See Note below."

Renumber current clauses "f), g), h)" to "g), h), i)".

Immediately following the renumbered clause "h)", insert the following:

"NOTE: Majors who take Chemistry 1010/1011 but not Chemistry 1031 as part of their first year sequence risk waiting a whole year before they can continue taking Biochemistry program courses."

Immediately preceding the last paragraph, delete the paragraph in its entirety and replace with the following:

"Students are encouraged to choose a minor."

Page 239, 2002-2003 University Calendar, following the heading Nutrition Program, subheading Major in Nutrition, in the second paragraph, delete clause "d)" and replace with the following:

"d) Biology 1001, 1002 or two first-year University level courses in Physics."

Immediately following the third paragraph, delete clause "c)" in its entirety and replace with the following:

"c) Biology 1001 and 1002; and Physics 1020, 1021, or Physics 1050, 1054 for those students who did not complete them in first year."

Delete existing clause "e)" and renumber current clause "f)" to "e)".

Page 240, 2002-2003 University Calendar, following the heading Course List, delete the course description for "1430. Biochemistry for Nurses" and replace with the following:

"1430. Biochemistry for Nurses. An introduction to the chemistry and structure-function relationships of carbohydrates, lipids and proteins. Basic metabolism of carbohydrates and fats, with emphasis on the biochemical fluctuations that occur in human health and disease. A brief introduction to molecular genetics. This course may not be used for credit to fulfil the requirements for a major in the Department of Biochemistry. Entry to this course is restricted to students in the BN (Collaborative) Program. Prospective fast-track program students should consult with the School of Nursing concerning admission to this course.

Prerequisite: Level 3..."

57.19 Department of Earth Sciences

Page 254, 2002-2003 University Calendar, following the heading Course List, subheading Second Year, amend the title of course "2502" to read as follows:

"2502. Geochemistry of Earth Materials (F)."

Delete the prerequisite to "2502" and replace with the following:

"Prerequisite/Co-requisite: Mathematics 1001"

Delete the course title and description for "2914. Natural Resources and the Past (F)" and replace with the following:

"2914. The Earth's Energy Resources: Past, Present and Future (F). (Same as former Geology 2414 and Earth Sciences 2414). A scientific analysis of the Earth's energy resources. The history of human exploitation of them; consequences for quality of life, and political and economic power; scenarios for the future.

NOTE: Earth Sciences 2914..."

Delete the course title and description for "2915. Natural Resources and the Future (F)" and replace with the following:

"2915. The Earth's Material Resources: Past, Present and Future (W). (Same as former Geology 2415 and Earth Sciences 2415). A scientific analysis of the Earth's

material resources (metals, non-metals, water). The history of human exploitation of them; consequences for quality of life, and political and economic power; scenarios for the future.

NOTE: Earth Sciences 2914..."

Page 254, 2002-2003 University Calendar, following the heading Course List, subheading Third Year, amend the prerequisites for course "3170. Exploration Geophysics I (W)" as follows:

"Prerequisites: Earth Sciences 2905; Mathematics 2000 or Statistics 2510."

Amend the prerequisites for course "3172. Exploration Geophysics II (F)" as follows:

"Prerequisites: Earth Sciences 2905; Mathematics 2000 or Statistics 2510."

Amend the prerequisites for course "3210. Economic Mineral Deposits (W)" as follows:

"Prerequisites: EITHER Earth Sciences 2031, 2502 and 2905; OR Earth Sciences 2031 and Chemistry 3211; OR Engineering 3610 and Engineering 3205."

Delete the prerequisites and notes for "3811. Paleontology (W)" in its entirety and replace with the following:

"Prerequisites: EITHER Biology 2120 (or Biology 1001 and 1002) and Earth Sciences 1002; OR Biology 2122 and 2210.

NOTE: Credit may not be obtained for Earth Sciences 3811 and Biology 3811, or either the former Earth Sciences 3801 or Biology 3800."

Page 254, 2002-2003 University Calendar, following the heading Course List, subheading Fourth Year, delete the prerequisite for course "4053. Petrogenesis of Igneous Rocks" in its entirety and replace with the following:

"Prerequisites: EITHER Earth Sciences 3054 OR the former Earth Sciences 3053 and 2503."

Delete the prerequisite for course "4400. Advanced Techniques in Structural Geology" in its entirety and replace with the following:

"Prerequisites: EITHER Earth Sciences 2401 and 3905 and a minimum of 6 credit hours in Earth Sciences at the 3000 level OR the former Earth Sciences 3400."

Delete the prerequisite for course "4700. Sedimentary Environments and Facies Models" in its entirety and replace with the following:

"Prerequisite: Earth Sciences 2702 or 3701 and a minimum of 6 credit hours in Earth Sciences at the 3000 level.

NOTE: Because of the several full-day field trips (usually on Thursday) and to avoid timetable conflicts, students are strongly advised to not take courses outside the department that have contact hours on the same day as the laboratories in this course."

57.20 Department of Biology

Page 243, 2002-2003 Calendar, following the heading Course List, delete the prerequisites for course "3530. Developmental Biology" and replace with the following:

"Prerequisites: Biology 2060 and either 2250 or Biochemistry 2100."

Insert the following new course:

"3714. Estuarine Fish Ecology Field Course. Community structure, function and distribution of northern coastal fishes in fjords and estuarine environments. Emphasis on sampling, field techniques, taxonomy, quantitative characterization, adaptations and habitat relationships. A comparative approach will contrast fish communities from other areas. To be held as a two week field course.
Prerequisite/Co-requisite: Biology 2600."

57.21 Department of Chemistry

Page 231, 2002-2003 University Calendar, following the heading Joint Programs, subheading Chemistry/Biochemistry Joint Honours Degree, delete clause "b)" in its entirety and replace with the following:

"b) Mathematics 2000, 2050, Applied Mathematics/Pure Mathematics 3260 and Physics 2054."

Following the subheading Earth Sciences/Chemistry Joint Honours, delete clause "d)" in its entirety and replace with the following:

"d) Mathematics 2000, 2050, Applied Mathematics/Pure Mathematics 3260."

Delete clause "e)" in its entirety and replace with the following:

"e) Physics 2054."

57.22 Department of Computer Science

Page 249, 2002-2003 University Calendar, under the heading Computer Science, subheading Major in Computer Science, delete clause "2)" and replace with the following:

"2) Additional courses required of the Majors are: Mathematics 2000, 2050, Statistics 2510, and 3 additional credit hours in Mathematics courses at the 2000 level or beyond."

Immediately following clause "2)", delete "Notes 1), 2) and 3)" and replace with the following:

"NOTE: Students are encouraged to take Business 2000, Mathematics 1031, Mathematics 2001, and Statistics 2560."

Page 249, 2002-2003 University Calendar, under the heading Computer Science, subheading Honours in Computer Science, amend clause "3)" to read as follows:

"3) Additional courses required of the Honours are: Mathematics 2000, 2050, Statistics 2510, and 3 additional credit hours in Mathematics courses at the 2000 level or beyond."

Immediately following clause "3)", delete "Notes 1), 2) and 3)" and replace with the following:

"NOTE: Students are encouraged to take Business 2000, Mathematics 1031, Mathematics 2001, and Statistics 2560."

Following the subheading Honours in Computer Science (Software Engineering) (B.Sc. Only), delete clause "3)" in its entirety and replace with the following:

"3) Additional courses required are: Mathematics 2000, 2050, Statistics 2510, and 3 additional credit hours in Mathematics courses at the 2000 level or beyond."

Following the subheading Honours in Computer Science (Software Engineering) (B.Sc. Only), immediately following clause "3)" delete "Note 1)" and replace with "NOTE:".

Following the subheading Computer Industry Internship Option (CIIO), immediately following the section "Expectation of work", delete the entry and replace with the following:

"The student is expected to submit, within a month from starting his/her internship, a plan of the intended work for the internship period. The student is also required to submit a **progress report** due in the last week of each semester. The plan of intended work and progress reports are to be submitted to the Coordinator.

At the end of the internship period, the student is required to submit a final report which will include the description of the project, the objectives, the goals, and the duties of the intern; it would also include a history of the intern's activities and accomplishments. The final report is to be submitted to the Coordinator by the first day of examinations."

Page 249, 2002-2003 University Calendar, under the heading Computer Science, subheading Computer Industry Internship Option (CIIO), immediately following the

section "Registration, Assessment of Performance, and Assignment of Grades", delete the first and second paragraphs and replace with the following:

"Students must register for the course CS3700 every semester during their internship.

CS3700 is a non-credit course open only to students who have been accepted into the Internship Program."

Following the subheading Computer Industry Internship Option (CIIO), under the section "Registration, Assessment of Performance, and Assignment of Grades", delete the paragraph immediately preceding the section "CIIO and Honours Program" and replace with the following:

"A grade of NC (No Credit) for CS3700 will be awarded in all semesters of the Internship Option prior to the final semester."

Page 249, 2002-2003 University Calendar, under the heading Computer Science, subheading Computer Industry Internship Option (CIIO), immediately following the section "CIIO and Honours Program", delete the entry and replace with the following:

"In case a student is enrolled in both the Honours program and the CIIO, the requirements of both must be met. Upon approval from the honours project supervisor, within the Department, the employer and the head of the Department of Computer Science, an internship project may be submitted as a component of an honours project. These arrangements must be made within the first semester of the Internship placement."

Page 249, 2002-2003 University Calendar, under the heading Computer Science, subheading Minor in Computer Science, delete clause "2)" and replace with the following:

"2) The remaining 9 credit hours in Computer Science courses must be at the 3000-level or above."

Page 251, 2002-2003 University Calendar, under the heading Course List, delete the section "Computer Science Service Courses" in its entirety.

Page 251, 2002-2003 University Calendar, under the heading Course List, delete the subheading "Computer Science Major Courses".

Page 251, 2002-2003 University Calendar, under the heading Course List, subheading First Year Courses, insert the following new course:

"1600. Basic Computing and Information Technology (F) & (W). This course offers an overview of computers and information technology. It provides students with the knowledge necessary to answer questions, such as: What is a computer system? How does it work? How is it used? This is done through the use of popular spreadsheet, word

processing and database software packages and the Internet. Social issues and implications will also be included.

Prerequisite: Level III Advanced Mathematics or Mathematics 1090, which can be taken concurrently.

Lectures: Three hours per week.

Laboratory: Three hours per week.

NOTE: Students can receive credit for only one of Computer Science 1600, Computer Science 2650 or Computer Science 2801."

Page 228, 2002-2003 University Calendar, under the heading Degree Regulations, subheading Regulations for the General Degree of Bachelor of Science, immediately following clause 7), delete Note "3)". Renumber current Notes "4), 5), 6), 7)" to "3), 4), 5), 6)".

Page 228, 2002-2003 University Calendar, under the heading Degree Regulations, subheading Regulations for the Honours Degree of Bachelor of Science, under Clause 2) in the second set of "Notes", delete "Note 2)" which reads as follows:

"Note 2) Computer Science Majors and Computer Science Honours students shall not receive credit for Computer Science Service Courses."

Renumber "Note 3)" as "Note 2)".

Page 231, 2002-2003 University Calendar, under the heading Joint Programs, subheading Pure Mathematics/Computer Science Joint Honours (B.Sc. only), delete "Note 1)".

Following the subheading Applied Mathematics/Computer Science Joint Major (B.Sc. only), delete the entry for "Note" in its entirety.

Under the subheading Pure Mathematics/Computer Science Joint Major (B.Sc. only), delete the entry for "Note" in its entirety.

Page 249, 2002-2003 University Calendar, following the heading Computer Science, subheading Second Year Courses, insert the following courses:

"2602. Computer Programming in FORTRAN (F) & (W). Introduction to computers and their use; and the FORTRAN programming language and its application to the computer solution of numeric and non-numeric problems.

Prerequisite: Mathematics 1000.

NOTE: Students who have received credit for the former Computer Science 2600, or the former 2601, or the former 2800 cannot receive credit for Computer Science 2602."

"2650. Introduction to Computing and Information Technology (F) & (W). This course provides a broad overview of hardware and software components of computer systems, their structure, and principles of operation. The topics include algorithmic problem solving, visual programming, operating system services, computer networks,

elements of artificial intelligence and societal issues. In addition to three one-hour lectures, there will be three hours per week of structured laboratory sessions. Internet and microcomputer software tools in the Windows environment are introduced.

Prerequisite: Level III Advanced Mathematics or Mathematics 1090.

NOTE: Students can receive credit for only one of Computer Science 1600, Computer Science 2650 or Computer Science 2801."

"2801. Introductory Computing for Business (F) & (W). This course introduces students to computer applications in business, document processing, application development, decision support, and information management. A three hour laboratory is required.

Prerequisite: Level III Advanced Mathematics or Mathematics 1090.

NOTE: Students can receive credit for only one of Computer Science 1600, Computer Science 2650 or Computer Science 2801."

Delete the courses "2710" and "2711" in their entirety and replace with the following:

"2710. Problem Solving and Programming (F) & (W). This course emphasizes algorithmic problem solving and sound programming techniques; for instance, mathematical models for abstract data types are formally defined and their relevant properties are proved. Basic techniques for the organization of data in the computer's storage are discussed and the basics for proving properties of programs are given.

Lectures: Three hours per week.

Laboratory: Three hours per week.

Prerequisite: Computer Science 1700."

"2711. Introduction to Algorithms and Data Structures (F) & (W). This course includes the study of standard ways of organizing and manipulating data in the computer's 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 2740 prior to registering for Computer Science 2711."

Page 106, 2002-2003 University Calendar, following the heading Computer Science, delete the course "2602. Computer Programming in BASIC and FORTRAN (F) & (W)" in its entirety and replace with the following:

"2602. Computer Programming in FORTRAN (F) & (W). Introduction to computers and their use; and the FORTRAN programming language and its application to the computer solution of numeric and non-numeric problems.

Prerequisite: Mathematics 1000.

NOTE: Students who have received credit for the former Computer Science 2600, or the former 2601, or the former 2800 cannot receive credit for Computer Science 2602."

Page 249, 2002-2003 University Calendar, following the heading Computer Science, subheading Third Year Courses, delete the course "3700. Industrial Experience (F) & (W)" in its entirety and replace with:

"3700. Industrial Experience (F) & (W). Students who are admitted to CIIO are required to register for this non-credit course every semester during their internship (*Course fee: \$200 per semester*). This course is open only to students who have been accepted into the Internship Program and provides an opportunity for qualified students to obtain rewarding job experience of 8, 12 or 16 months of continuous duration, during the course of their studies.

Prerequisite: Admission to the Computer Industry Internship Option (CIIO)."

Amend the course description for "3710. Vocational Languages (W)" to read as follows:

"Study of several programming languages...(e.g. a selection from C, C++, Prolog, Perl, Python and LISP)..."

Amend the course description and prerequisite for "3718. Programming in the Small (F)" to read as follows:

"The main objective of this course...to be covered include analysis and design of software..."

Prerequisite: Computer Science 2711 and Computer Science 2741."

Delete the prerequisite for course "3731. Numerical methods (W)." and replace with the following:

"Prerequisites: Mathematics 2000, and one of Computer Science 2602 or 2710."

Delete the prerequisite for course "3753. Computational Aspects of Linear Programming (F)." and replace with the following:

"Prerequisite: Mathematics 2050, and one of Computer Science 2602 or 2710."

Page 249, 2002-2003 University Calendar, following the heading Computer Science, subheading Fourth Year Courses, delete the prerequisite, in its entirety, for course "4715 and 4717. Special Topics in Programming Languages".

Delete the prerequisite for course "4718. Software Methodology (F) & (W)." in its entirety and replace with the following:

"Prerequisites: Computer Science 3711. Students are encouraged to take Computer Science 3718 prior to doing this course."

Delete the prerequisite for course "4719. Software Specification (F)." in its entirety and replace with the following:

"Prerequisite: Computer Science 3711."

Amend the course title for "4721. Operating Systems Principles (F)." to read as follows:

"4721. Operating Systems Principles (F) & (W)."

Amend the prerequisite for course "4723. Introduction to Microprocessors (F)." to read as follows:

"Prerequisite: Computer Science 3724."

Delete the prerequisite in its entirety for the course "4726-4729. Special Topics in Computer Systems."

Delete the note in its entirety for the course "4734. Matrix Computations and Applications."

Delete the prerequisite in its entirety for the course "4736-4739. Special Topics in Numerical Computations."

Delete the course "4745-4749" in its entirety and replace with the following:

"4745-4749 (excluding 4748). Special Topics in Theoretical Aspects."

Delete the course description in its entirety for "4753. Introduction to Artificial Intelligence (F)." and replace with the following:

"Selected topics from AI programming languages; problem solving; search and heuristic search; game-playing; knowledge-based systems; pattern recognition; computer vision; natural language understanding; and machine learning."

Delete the course "4755-4769" in its entirety and replace with the following:

"4755-4769 (excluding 4756, 4759, 4761 and 4762). Special Topics in Applications."

Amend the course "4780. Honours Project" to read as follows:

"4780. Honours Project. This course introduces computer science honours students to research activities, familiarizes them with a special problem in computer science, and provides independent study on an advanced topic under the direct supervision of a member of the computer science faculty. The topic is decided in consultation with the supervisor. The student is required to produce a written report on the project, to include the literature search on the topic, and to present this work at a departmental seminar prior to the last week of the semester.

Prerequisite: Consent of the Head of Department.

NOTE: This course is only available to students who have been accepted into the honours program."

Page 251, 2002-2003 University Calendar, immediately preceding the heading Faculty Advisors, insert the following:

"SUPPLEMENTARY EXAMINATIONS

Supplementary examinations will be allowed in certain Computer Science courses which have written final examinations. Students should refer to the Faculty of Science degree regulations for details."

Page 228, 2002-2003 Calendar, under the heading Degree Regulations, delete the subheading Regulations to Govern Supplementary Examinations in the Departments of Biochemistry, Mathematics and Statistics, and Physics and Physical Oceanography, and replace with the following:

"REGULATIONS TO GOVERN SUPPLEMENTARY EXAMINATIONS IN THE DEPARTMENTS OF BIOCHEMISTRY, COMPUTER SCIENCE, MATHEMATICS AND STATISTICS, AND PHYSICS AND PHYSICAL OCEANOGRAPHY"

Amend clause "1)" to read as follows:

"1) Supplementary examinations will be allowed in certain of the Biochemistry, Computer Science and Physics courses and all Mathematics and Statistics courses which have written final examinations..."

57.23 Department of Physics and Physical Oceanography

Page 264, 2002-2003 University Calendar, following the heading Physics and Physical Oceanography, subheading Programs in Physics, immediately following the second entry, add to the list of programs:

- "- Major in Environmental Physics
- Honours in Environmental Physics"

Page 264, 2002-2003 University Calendar, following the heading Physics and Physical Oceanography, immediately preceding the subheading Table of Credit Restrictions, insert the following new programs:

" MAJOR IN ENVIRONMENTAL PHYSICS

- a) English 1080 and English 1110 (or equivalent)
- b) Chemistry 1050 and 1051
- c) Mathematics 1000 and 1001

- d) Mathematics 2000, Mathematics 2050, AM/PM 3260, AM/PM 3202
- e) Physics 1050 and 1054 or Physics 1020, 1021, and 1054
- f) Physics 2053, 2054, 2055, 2056, 3220, 3820, 3300, 3340, 4340
- g) Physics 3400 or 3500
- h) Earth Sciences 1000, 1002, 2502, 3170, 3172
- i) Geography 2102, 2195, 3120
- j) Biology 2120, 2600

The Major degree offers students a fair degree of latitude in choosing electives, students are encouraged to take electives from Geography and Earth Sciences: of particular merit would be any of Earth Sciences 3600, 3611 or 4105.

HONOURS IN ENVIRONMENTAL PHYSICS

- a) English 1080 and English 1110 (or equivalent)
- b) Chemistry 1050 and 1051
- c) Mathematics 1000 and 1001
- d) Mathematics 2000, Mathematics 2050, AM/PM 3260, AM/PM 3202
- e) Physics 1050 and 1054 or Physics 1020, 1021, and 1054
- f) Physics 2053, 2054, 2055, 2056, 3220, 3820, 3821, 3300, 3340, 4205, 4300, 4340, 490A/B
- g) Physics 3400 or 3500
- h) Earth Sciences 1000, 1002, 2502, 3170 and 3172
- g) Geography 2102, 2195, 3120
- j) Biology 2120, 2600

An honours thesis is to be presented on work undertaken by the candidate under the guidance of a Department of Physics and Physical Oceanography faculty member. The thesis comprises the six-credit hour course Physics 490A/B. Students should seek departmental advice regarding a thesis project no later than the winter preceding the semester in which the project will be started.

The Department recommends that students wishing to complete the Honours Physics program in 120 credit hours follow the schedule given below. This schedule is intended for students who qualify for Physics 1050 and 1054. Other suggested course schedules are available from the Head of the Department.

Year	Semester I	Semester II
I	English 1080	English 1110
	Chemistry 1050	Chemistry 1051
	Physics 1050	Physics 1054
	Earth Sciences 1000	Earth Sciences 1002
	Mathematics 1000	Mathematics 1001
II	Physics 2053	Physics 2056
	Physics 2054	Geography 2195

	Geography 2102	Mathematics 3260
	Mathematics 2050	Mathematics 3202
	Mathematics 2000	Elective
III	Physics 3220	Physics 2055
	Physics 3820	Biology 2120
	Earth Sciences 2502	Geography 3120
	Physics 3400/3500	Earth Sciences 3170
	Physics 3340	Elective
IV	Physics 3300	Physics 4300
	Physics 3821	Physics 4340
	Biology 2600	Physics 490B
	Physics 490A	Physics 4205
	Earth Sciences 3172	Elective"

Page 264, 2002-2003 University Calendar, following the heading Physics and Physical Oceanography, under the subheading Course List, insert the following new courses:

"3340. Principles of Environmental Physics. The course will explore the basic physical principles of light, heat, energy and sound in the natural environment. Several key aspects of physics in the environment will be covered including climate and the physical evolution of the planet and the present role of the atmosphere and ocean spectroscopy in the atmosphere and measurement and observation of the atmosphere; principles of energy generation and pollution transport in the atmosphere and ocean.

Lectures: Three hours per week.

Prerequisites: Mathematics 2000 and Physics 2053."

"4340. Modelling in Environmental Physics. The basic principles underlying environmental modelling will be developed and techniques for modelling presented and applied. Techniques for numerical modelling will be developed and simple numerical models will be developed for use in terrestrial, atmospheric and oceanic environments. Free and forced systems will be discussed and the transition to chaos and some aspects of chaotic dynamics.

Lectures: Three hours per week.

Prerequisites: Physics 3340 and Physics 3820 (or the permission of the instructor)."

57.24 Faculty of Medicine

Page 344, 2002-2003 University Calendar, following the heading Regulations for the Degree of Doctor of Medicine, subheading Admission to the Faculty of Medicine, amend clause "1)" to read as follows:

"All applications for entry to the program...on or before the closing date (normally October 15th). No application..."

Under the subheading Admission to the Faculty of Medicine, amend clause "4)" to read as follows:

"Entry to medical school...at the time of the closing date for application (normally October 15th) will be determined..."

57.25 Admission/Readmission (Undergraduate) Regulation 3.1.1

Page 49, 2002-2003 University Calendar, following the heading Admission/Readmission to the University (Undergraduate), subheading 3 Categories of Applicants, Admission Criteria and Other Information, under clause "3.1.1.", delete the following courses from the "Laboratory Science" list of courses:

"Environment Science" and "Environmental Science 3205"

Following the subheading 3 Categories of Applicants, Admission Criteria and Other Information, under clause "3.2.1", delete the following course from the list of courses for "Laboratory Science"

"Environmental Science"

58. Report of the Academic Council of the School of Graduate Studies

58.1 Faculty of Medicine

In response to a question from Professor Hackett, Dr. Jablonski agreed to consult with the Faculty of Medicine regarding the referenced on-site tutorials for the courses 6288 and 6292.

Page 499, 2002-2003 Calendar, under the heading Medicine, following the subheading Courses, insert the following new courses:

**"6288. Policy and Decision Making.
6292. Qualitative & Quantitative Methods for Health Services Research."**

Page 518, 2002-2003 Calendar, under the heading Medicine, under the subheading Courses, insert the following new courses:

**"6288. Policy and Decision Making.
6292. Qualitative & Quantitative Methods for Health Services Research."**

58.2 Department of Chemistry

Page 493, 2002-2003 Calendar, under the heading Chemistry, subheading Courses, insert the following new course:

"6205. Photochemistry of Transition Metal Complexes"

Page 509, 2002-2003 Calendar, under the heading Chemistry, subheading Courses, insert the following new course:

"6205. Photochemistry of Transition Metal Complexes"

58.3 Department of Mathematics and Statistics

Page 458, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Applied Statistics, delete the prerequisite for clause B) iii.

Delete clause C)3. in its entirety and replace with the following:

"Evaluation of the practicum shall follow that of Masters Theses and Reports in Graduate Studies General Regulations."

58.4 Master of Education

Page 473, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Education, subheading H) Specific Programs, subheading 5. Information Technology, delete in its entirety clause "5.a)i)".

Renumber current clause "ii)" to "i)".

58.5 Master of Women's Studies

Page 505, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Women's Studies, subheading Women's Studies Graduate Committee, amend the fifth paragraph to read as follows:

"The program is administered by the Women's Studies...which are appointed by the Dean of Arts on the advice of the Women's Studies Council..."

Following the subheading Women's Studies Graduate Committee, delete:

"Women's Studies Graduate Committee

Dr. Elizabeth Yeoman (Education) - Graduate Coordinator

Dr. Roberta Hammett (Education)

Dr. Phyllis Artiss (English)

Dr. Rosonna Tite (Education) - Coordinator (ex officio)

Leah Thompson (Graduate Student Representative)"

Page 505, 2002-2003 University Calendar, under the heading Master of Women's Studies Degree, subheading A) Qualifications for Admission, delete clause "2)" in its entirety and replace with the following:

"2) Applicants who do not have an adequate background in Women's Studies may be required to complete Women's Studies 4000 or equivalent normally with a grade of 75% or higher."

58.6 Master of Philosophy in Humanities Program

Page 488, 2002-2003 University Calendar, under the heading Humanities, subheading Master of Philosophy, delete clause "D) 2." in its entirety and replace with the following:

"The Examination Committee shall be appointed by the Dean of Graduate Studies on the recommendation of the Board of Studies. The Committee shall normally consist of three members. One member of the Committee is normally the tutor. The candidate shall be informed of the names of the committee well before the examination."

Insert immediately following clause D) 5.:

"6. The program journal is an extended paper or series of linked papers which analyses and reflects critically on issues encountered by the candidate during the course of the program. Papers and/or projects completed during courses may be incorporated into the program journal, but shall not, of themselves, constitute the entire journal."

Renumber current clause "6., 7., 8." to "7., 8., 9."

58.7 Master of Employment Relations

Page 478, 2002-2003 University Calendar, under heading Regulations Governing the Degree of Master of Employment Relations, subheading E) Program of Study, delete clause 5. in its entirety and replace with the following:

"5. The Research Seminar in Employment Relations provides students with both quantitative and qualitative research skills and requires the identification of a research problem, the development and execution of a methodology appropriate to addressing the problem, analysis of results, and completion of final report. The course is divided into three parts, representing 2 credit hours of course work in each of the Fall, Winter and Spring Semesters."

Under subheading G) Courses, "Table III - Elective Courses", delete the following course:

"BUSI 9327. Human Issues in International Business"

58.8 Department of Folklore

Page 514, 2002-2003 University Calendar, following the heading Doctor of Philosophy, delete in its entirety clause "5.a) and replace with:

"a) The candidate will normally submit a thesis proposal based on his/her own interests no later than the end of the fourth semester of the program. The thesis proposal will include a working title, names of preferred Supervisor and two other committee members, statement of topic, plan of research, statement of methodological and theoretical approach, a brief review of the literature and a preliminary bibliography. The proposal will be circulated to the Department for critical evaluation on the basis of which the candidate will be informed, within one month, by the Supervisor, of its acceptance, rejection, or acceptance with recommended changes."

58.9 Department of Geography

Page 464, 2002-2003 University Calendar, following the heading Geography, Associate Professor and Head of the Department E.L. Simms, delete remaining entry up to but not including Courses:

- "1. The degrees of Master of Arts and Master of Science are offered in Geography by full-time or part-time study.
2. Admission requirements are set forth in the General Regulations of the School of Graduate Studies and Degree Regulations for Master of Arts and Master of Science.
3. The deadline for submission of applications for admission is February 28. Candidates will normally commence their programs in the Fall Semester.
4. An applicant will be admitted to a graduate program only if a faculty member agrees to act as supervisor. A supervisory committee will be established after admission, normally consisting of the supervisor and two other individuals, one of whom will normally be a member of the Department.
5. Major research areas for graduate study at the master's level are cultural, historical, economic, urban, resource management, regional development, geomorphology, Quaternary environments, climatology and geographic information sciences.
6. Candidates will register for the M.A. program if their fields of interest lie in an area of Human Geography or for the M.Sc. if their fields of interest are in Physical Geography or Geographic Information Sciences.
7. It is expected that the program of study and research for the M.A. or M.Sc. will normally be completed in a maximum of two years of full-time work, or three years of part-time work.
8. Candidates must successfully complete a minimum of 12 credit hours of graduate program courses with a minimum grade of B in each. Geography 6000 will be a required

course for all candidates who have not already completed an equivalent course at the Honours or post-graduate level.

9. Candidates whose undergraduate degree is not in geography will be required to complete some additional undergraduate program courses during their first year of study, in addition to the required graduate program courses. Normally four such undergraduate courses will be required, and a minimum grade of 70% must be obtained in each.

10. Each candidate will be required to present a seminar on their research to the Department.

11. Each candidate must submit a thesis based on their own original research. This thesis will be examined in accordance with the General Regulations of the School of Graduate Studies."

Page 498, 2002-2003 University Calendar, following the heading Geography, Associate Professor and Head of the Department E.L. Simms, delete remaining entry up to but not including Courses:

"1. The degrees of Master of Arts and Master of Science are offered in Geography by full-time or part-time study.

2. Admission requirements are set forth in the General Regulations of the School of Graduate Studies and Degree Regulations for Master of Arts and Master of Science.

3. The deadline for submission of applications for admission is February 28. Candidates will normally commence their programs in the Fall Semester.

4. An applicant will be admitted to a graduate program only if a faculty member agrees to act as supervisor. A supervisory committee will be established after admission, normally consisting of the supervisor and two other individuals, one of whom will normally be a member of the Department.

5. Major research areas for graduate study at the master's level are cultural, historical, economic, urban, resource management, regional development, geomorphology, Quaternary environments, climatology and geographic information sciences.

6. Candidates will register for the M.A. program if their fields of interest lie in an area of Human Geography or for the M.Sc. if their fields of interest are in Physical Geography or Geographic Information Sciences.

7. It is expected that the program of study and research for the M.A. or M.Sc. will normally be completed in a maximum of two years of full-time work, or three years of part-time work.

8. Candidates must successfully complete a minimum of 12 credit hours of graduate program courses with a minimum grade of B in each. Geography 6000 will be a required course for all candidates who have not already completed an equivalent course at the Honours or post-graduate level.

9. Candidates whose undergraduate degree is not in geography will be required to complete some additional undergraduate program courses during their first year of study, in addition to the required graduate program courses. Normally four such undergraduate courses will be required, and a minimum grade of 70% must be obtained in each.

10. Each candidate will be required to present a seminar on their research to the Department.

11. Each candidate must submit a thesis based on their own original research. This thesis will be examined in accordance with the General Regulations of the School of Graduate Studies."

Page 464, 2002-2003 University Calendar, under the heading Geography, delete "Fields of Research" in its entirety.

Page 514, 2002-2003 University Calendar, under the heading Geography, following the heading Doctor of Philosophy, delete the section up to but not including Courses:

"DOCTOR OF PHILOSOPHY

1. To be admitted to the program, an applicant must have completed either a Master of Arts or a Master of Science degree, or its equivalent, in Geography or a related discipline. In exceptional circumstances, a candidate who has completed either a B.A. (Honours) or B.Sc. (Honours) degree, and who has spent not less than 12 months in a M.A. or M.Sc. degree program may apply for transfer into a Ph.D. program. A successful application for transfer will require that the candidate demonstrate to the satisfaction of the Department an ability to pursue research at the doctoral level.

2. The deadline for submission of applications for admission is February 28. Candidates will normally commence their programs in the Fall Semester.

3. Research areas for graduate study at the Doctoral level are cultural and historical geography, economic geography, resource management, physical geography and geographic information sciences.

4. An applicant will be admitted to a doctoral program only if a faculty member agrees to act as supervisor, and at least two other individuals are willing to serve on the supervisory committee.

5. All candidates must successfully complete Geography 6000 if that course, or an equivalent course, has not been included in their Master's program. In addition, all

candidates are required to successfully complete a minimum of 6 credit hours in graduate program courses.

6. The supervisory committee may decide that a candidate successfully completes an examination for reading or speaking a language other than English.

7. After the successful completion of all required courses, candidates must take a comprehensive examination which will have both a written and an oral component.

8. Following successful completion of the comprehensive examination the candidate will submit a written research proposal to the supervisory committee. The proposal must then be approved by the Committee prior to the commencement of research by the Candidate.

9. Each candidate will be required to present a seminar on their research to the Department.

10. The Ph.D. program will conclude with the examination and oral defense of the completed thesis in accordance with the appropriate sections of the General Regulations governing the School of Graduate Studies."

58.10 Department of Anthropology

Page 506, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Doctor of Philosophy and Specific Program Regulations, subheading Anthropology, amend clause 5.A. course listing to read as follows:

"Archaeology: 6700, 6411
Social/Cultural: 6300, 6890"

Under the subheading Anthropology, under the heading "Courses", delete:

"A/P 6701. Interpretative Methods in Historical Archaeology".

Amend the course "A/P 6700. Interpretative Methods in Prehistoric Archaeology" to read as follows:

"A/P 6700. Interpretative Methods in Archaeology".

Under subheading Anthropology, delete clause "6." in its entirety and replace with the following:

"6. All candidates must demonstrate a reading knowledge of a second language to be determined in consultation with the supervisory committee. This language will normally be a language in which there is a substantial body of literature in either Archaeology or Social and Cultural Anthropology. It could also be a field language pertinent to the candidate's project. The exam will be sent and marked by an authority determined by the

Head of the Department and the Dean of Graduate Studies (see General Regulation G2d) and will normally be completed before the Comprehensive Examination is undertaken."

Delete clause "7." in its entirety and replace with the following:

"7. The Ph.D. Comprehensive Examination shall be administered in accordance with General Regulation H. The examination may be oral, written or both, and shall consist normally of three (3) sessions, each of up to three hours duration, within a one week period, or three (3) one week take home examinations. Candidates will prepare for these examinations by undertaking supervised readings in three fields prescribed by the three members of the comprehensive exam committee. The examination will deal with specified areas of either archaeology or social/cultural anthropology. The examination will normally be scheduled in the third week of November each year in the second year of the candidate's program."

58.11 Department of German and Russian

Page 465, 2002-2003 University Calendar, following the heading German, amend clause "2" to read as follows:

"2. All candidates will complete at least 15 credit hours..."

58.12 Faculty of Engineering and Applied Science

Page 480, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Engineering, subheading B. Program of Study and Research, amend clause "B.1." to read as follows:

"1. Students enrolled in the Master of Engineering program...Mechanical Engineering; Ocean and Naval Architectural Engineering."

Delete the last paragraph of clause "B.2." and replace with the following:

"For students enrolled in the Electrical and Computer Engineering, Mechanical Engineering, or Ocean and Naval Architectural Engineering disciplines, a program shall normally include at least 9 credit hours from courses chosen from the core courses listed in B.3; for students enrolled in the Civil Engineering discipline, a program shall normally include at least 6 credit hours from courses chosen from the core courses listed in B.3."

Amend clause "B.3." to read as follows:

"3. The following are core courses:

Eng. 9002, 9015, 9210, 9420, 9501, 9505, 9516, 9520, 9550, 9609, 9816, 9821, 9826, 9827, 9834, 9847, 9861, 9867, 9871, 9876, 9901, 9940."

Delete clause "B.4." in its entirety.

Renumber current clause "B.5." and "B.6." to "B.4." and "B.5."

Page 480, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Engineering, subheading J. Program in Environmental Engineering and Applied Science, under the subheading "Courses", delete in its entirety:

"Faculty Core Courses:...9867. Advanced Computing Concepts for Engineering"

Under the subheading J. Program in Environmental Engineering and Applied Science, subheading Courses, delete in its entirety:

"Discipline Core Courses:...9940. Advanced Robotics."

Page 480, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Engineering, subheading J. Program in Environmental Engineering and Applied Science, under the subheading "Courses", immediately after the second paragraph insert:

"Required Courses:

9100. Engineering Graduate Seminar (1 cr. hr.)

Core Courses*:

9002. Ocean Engineering Structures
9015. Ocean Engineering Hydrodynamics
9210. Advanced Engineering Materials
9420. Engineering Analysis
9501. Finite Element Analysis with Engineering Applications
9505. Structural Dynamics and Vibrations
9516. Similitude, Modeling and Experimental Data Analysis
9520. Solid and Structural Mechanics
9550. Fatigue, Fracture and Corrosion
9609. Environmental Risk Assessment
9816. Antenna Theory
9821. Digital Signal Processing
9826. Advanced Control Systems
9827. Continuous and Discrete-Event Systems
9834. Advanced Power Electronics
9847. Computer & Control Methods in Power Systems
9861. High-Performance Computer Architecture
9867. Advanced Computing Concepts for Engineering
9871. Information Theory and Coding
9876. Advanced Data Networks

9901. Fundamentals of Fluid Dynamics
9940. Advanced Robotics"

Under the subheading Other Courses, delete the following courses:

"9210. Advanced Engineering Materials"
"9310. Engineering Economics Analysis"
"9520. Solid and Structural Mechanics"
"9525. Mechanics of Brittle Viscoelastic Solids"
"9550. Fatigue, Fracture and Corrosion"
"9712. Environmental Hydraulics"
"9826. Advanced Control Systems (formerly 9810)"

Insert the following courses:

"9411. Probabilistic Methods in Engineering"
"9440. Optimization Principles in Engineering"
"9815. Electromagnetic Propagation"
"9873. Image Communications "

Page 480, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Engineering, subheading J. Program in Environmental Engineering and Applied Science, under "Other Courses", immediately preceding the heading Environmental Engineering and Applied Science, delete the following:

***Courses cross-listed with the Department of Mathematics and Statistics.
***Courses cross-listed with the Department of Computer Science."

Page 511, 2002-2003 University Calendar, under the heading Engineering and Applied Science, subheading D) Courses, delete the section in its entirety and replace with the following:

"For a list of graduate courses offered by the Faculty of Engineering and Applied Science refer to the list of "Core Courses" and the list of "Other Courses" offered for the Master of Engineering program on p. 481-482."

Page 480, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Engineering, subheading E. Fast-Track Option, immediately preceding the last line of the first paragraph, insert the following:

"Normally, to be considered for admission to the option, students must have achieved at least a 70% average over academic terms 1 to 6 of their undergraduate engineering program."

Delete the last sentence of the second paragraph, and replace with the following:

"A student enrolled in the fast track option shall undertake research related to their field of study and shall normally complete at least 3 credit hours from the courses listed for their M.Eng. program in the fall semester prior to academic term 8."

58.13 Master of Business Administration

Page 468, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Business Administration, delete in its entirety clause "B) Deadlines for Applications" and replace with the following:

"B) DEADLINES FOR APPLICATIONS

Applications and all supporting documents must be received not later than March 15 from Canadian applicants wishing to enter full-time or part-time studies in the Fall semester. Part-time applicants planning to enter in the Winter (January) or Spring (May) semester must apply prior to October 15 and January 15 respectively. Individuals submitting applications later than the above dates are not assured of consideration for admission to the program in the semester desired; their applications will be processed only if time and resources permit. Full-time and international applicants are normally considered for entry in the Fall semester. International applicants must submit complete documentation by February 1."

Page 468, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Business Administration, subheading E) Programs of Study, amend clause "3.b)" to read as follows:

"At least one of B9306, B9325, B9326, B9020; or another approved international course;"

Page 468, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Business Administration, subheading E) Programs of Study, clause "5." insert the following course:

"9020 Nine courses completed including 8104"

Delete:

"9327 Nine courses completed including 8104"

Page 468, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Business Administration, subheading F) Evaluation, delete clause "5." in its entirety and replace with the following:

"5. Clause F3 notwithstanding, in some instances, at the discretion of the course instructor, and with the approval of the associate dean, academic programs, Faculty of Business Administration, a student who has received a grade of 'C' or less in any course

may be permitted to complete remedial work and may be re-examined. A student who passes after re-examination will have "passed on the basis of re-examination" recorded on their transcript, and the original grade will remain. A student who receives a grade of 'C' or less after re-examination will be required to withdraw from the program. The original grade will count as part of the total number of final grades of 'C' or less permitted before a student is required to withdraw as specified in F3.

NOTE: The pursuit of remedial work may not be offered more than twice to an individual student."

Page 471, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Business Administration (Executive Option), subheading E) Evaluation, delete clause "5." in its entirety and replace with the following:

"5. Clause E)3 notwithstanding, in some instances, at the discretion of the course instructor, and with the approval of the associate dean, academic programs, Faculty of Business Administration, a student who has received a grade of 'C' or less in any course may be permitted to complete remedial work and may be re-examined. A student who passes after re-examination will have "passed on the basis of re-examination" recorded on their transcript, and the original grade will remain. A student who receives a grade of 'C' or less after re-examination will be required to withdraw from the program. The original grade will count as part of the total number of final grades of 'C' or less permitted before a student is required to withdraw as specified in E3.

NOTE: The pursuit of remedial work may not be offered more than twice to an individual student."

58.14 Faculty of Medicine

Page 499, 2002-2003 Calendar, following the heading Medicine, (as approved at the meeting of Senate held on September 10, 2002), following the subheading Graduate Diploma, Degree Requirements, amend clause 2. to read as follows:

"2. A diploma in Clinical Epidemiological Research requires successful completion of the following three courses: 6200, 6250 and 6255."

58.15 Master of Nursing

Page 485, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Nursing, subheading A) Program, immediately following clause "2." insert:

"3. The School of Nursing offers a Master of Nursing Program with three options: (thesis, non-thesis, and nurse practitioner) as well as a Post Masters Nurse Practitioner Diploma."

Following the subheading B) Qualifications for Admission, delete clause "1." in its entirety and replace with the following:

"1. Applicants to the Master of Nursing Program in any of the three options listed above must have a baccalaureate degree in nursing, or an equivalent from an institution recognized by the University and a knowledge of nursing satisfactory to the School of Nursing."

Following the subheading B) Qualifications for Admission, immediately following clause "4.", insert the following clauses:

"5. In addition to the above requirements, candidates seeking admission to the MN-Nurse Practitioner degree option must have two years of clinical experience preferably in their chosen specialty area. As well, candidates must have a letter from a health care agency and a clinical preceptor guaranteeing the candidate a preceptored clinical placement for the final semester of their program.

6. In addition to requirements B. 1 and 4, candidates seeking admission to the Post Masters Nurse Practitioner Diploma program must have completed a Masters Degree in Nursing or an equivalent degree with a nursing focus and have two years of clinical nursing experience preferably in their chosen specialty area. As well, candidates must have a letter from a health care agency and clinical preceptor guaranteeing the candidate a preceptored clinical placement for the final semester of their program."

Renumber current clause "5." to "7."

Page 485, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Nursing, immediately following the subheading D) Programs of Study, delete the first and second paragraph and replace with the following:

"There are three routes offered that lead to a Master of Nursing degree: (I) Thesis option, (II) Non-thesis option, and (III) Nurse Practitioner option. Normally the program will require two years to complete when taken on a full-time basis.

In addition to the MN degree program, the School of Nursing also offers a Post Masters Nurse Practitioner Diploma."

Page 485, 2002-2003 University Calendar, under the heading Regulations Governing the Degree of Master of Nursing, subheading D) Programs of Study, immediately preceding subheading E) Evaluation, insert:

"(III) Nurse Practitioner Option

1. Candidates must complete an approved program of study consisting of a minimum of 35 credit hours in graduate program courses and an integrated clinical practice experience, comprising 15 credit hours.

Required courses:

6010. Research in Nursing 1: Quantitative Methods
6011. Philosophical and Theoretical Foundations of Nursing
6100. Research in Nursing II: Qualitative Methods
6020. Program Development in Nursing
either 6200. Nursing Individuals and Families through Life Transitions and
6210. Nursing Therapeutics for Individual and Families
OR 6220. Concepts for Population-based Nursing, and 6230 - Interventions for
Population-based Nursing
6700. Clinical Decision Making
6701. Advanced Practice Issues and Role Development
6702. Clinical Practice I (96 hours of clinical practice in various health care settings)
One of: 6800 to 6809 Nursing Specialty Option Courses
6900X. Advanced Clinical Practicum II (The integrated practice component will
normally consist of a minimum of 500 hours of preceptored specialty clinical practice
and biweekly seminars).

2. The program of each candidate shall be approved by the Dean on the recommendation of the Director.

(IV) Post Masters Nurse Practitioner Diploma

1. Candidates with a Master's degree in Nursing or an equivalent degree with a nursing focus must complete an approved program of study consisting of a minimum of 14 credit hours in graduate program courses and integrated clinical practice experience, comprising 15 credit hours.

Required courses:

6700. Clinical Decision Making
6701. Advanced Practice Issues and Role Development
6702. Clinical Practice I (96 hours of clinical practice in various health care settings)
One of: 6800 to 6809 Nursing Specialty Option Courses
6900X. Advanced Clinical Practicum II (The integrated practice component will
normally consist of a minimum of 500 hours of preceptored specialty clinical practice
and biweekly seminars).

2. Programs for some candidates may exceed the above minimum requirements.

3. The program for each candidate shall be approved by the Dean on the recommendation of the Director."

Page 485, 2002-2003 University Calendar, following the heading Regulations Governing the Degree of Master of Nursing, subheading F) Thesis, under subheading Courses, add the following new courses:

"6700. Clinical Decision Making (6 credit hours)
6701. Advanced Practice Issues and Role Development (2 credit hours)
6702. Clinical Practice I (96 hours of clinical practice in various health care settings) 3 credit hours)
One of: 6800 to 6809 Nursing Specialty Option Courses (3 credit hours)
6900X. Advanced Clinical Practicum II (The integrated practice component will normally consist of a minimum of 500 hours of preceptored specialty clinical practice and biweekly seminars) (15 credit hours)"

59. Report of the Planning and Budget Committee

Dr. Simpson briefed Senate on the recent actions of the Planning and Budget Committee which include the following:

- Approval of the establishment of a Research centre for the Study of Music, Media and Place. This centre will be the vehicle by which the CRC in Traditional Music creates a research network and advances the University's expectations for the Chair. Since the centre requires only indirect University support, it needs only the approval of the Planning and Budget Committee for its establishment.
- Approval has been given in principle to an Inco Innovation Centre. Through a corporate gift negotiated as part of the Voisey's Bay nickel development, the University has an opportunity to develop basic research programs in process engineering, ore-deposit characterization and environmental strategies. The procedures require that a plan for the Centre, addressing academic issues and the resources required, now be developed for consideration by the Planning and Budget Committee and possible approval by Senate and Board.
- Approval has been given in principle to a Centre for Rural and Regional Studies. If established, it will address the element of the Action Plan for the Strategic Framework that calls for describing the network of Memorial personnel working in areas of rural and regional development and developing ways of cementing this network, internally and externally, through appropriate offices and programs. As called for in the procedures, a steering committee has been established to develop the required plan for further consideration.

60. Remarks from the Acting Chair - Questions/Comments from Senators

The following is a summary of the remarks made by the Acting Chair:

- The Acting Chair announced that Professor Adrian Fowler recently completed all requirements for his Ph.D. at the University of Ottawa and invited Senators to join him in congratulating Professor Fowler.

- Dr. Simpson noted that the academic performance of Fall 2002 new matriculants is the best we have seen since annual tracking began in 1995. These students had the benefit of having written high school public exams in both level 2 and level 3. Some highlights include:- The semester average for all Fall 2002 full-time new matriculants was 64.9%, up from 63.1% in 2001 and 62.1% in 2000.

- The proportion of these students with first semester averages above 70% increased to 35.9%, as compared to 30% in Fall 2001 and 29.5% in Fall 2000.

- 10% of students had first semester averages below 50%, as compared to 13.2% in Fall 2001 and 14.4% in Fall 2000. *This is the lowest failure rate observed in the 10 year period from 1993-2002.*

- There is also evidence that, on average, these students took more courses (perhaps influenced by Student Aid regulations) and successfully completed a higher proportion of them.

Dr. Simpson remarked that further information, including an analysis of students beyond their first year of study, will be published in the Fall 2002 Academic Performance Report which will be available in late February.

61. ITEMS FOR INFORMATION

62. ADJOURNMENT

The meeting adjourned at 5:45 p.m.