

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

SENATE

The regular meeting of Senate was held on Tuesday, February 9, 1993, at 8:00 p.m. in Room E5004.

38. PRESENT

The President, Dr. K. Bindon, Mr. G. Collins, Dean R. Crocker, Mr. R. Ellis, Professor M. Lamb, Dean W. Ludlow, Dean J. Malpas, Acting Dean E. Moore, Dean R. Roskin, Dr. W. Rowe, Dean M. Staveley, Professor K. Taylor, Dean L. Visentin, Professor M. Volk, Dr. J. Buffinga, Dr. G. Casey, Dr. L. Crim, Dr. A. den Otter, Professor J. Foltz, Dr. G. Gardner, Dr. R. Gordon, Professor M. Graesser, Dr. M. Haddara, Dr. T. Hannah, Dr. C. Jablonski, Dr. O. Janzen, Dr. W. Kennedy, Dr. H. Kiefte, Professor K. Knowles, Dr. A. Martin, Professor E. McKim, Dr. W. McKim, Dr. R. Moore-Orr, Dr. T. Murphy, Dr. F. O'Connor, Dr. R. Rompkey, Dr. P. Scott, Dr. P. Sinclair, Dr. M. Wilkshire, Dr. P. Wilson, Ms. D. Barrett, Mr. P. Flynn, Mr. C. Clarke.

39. APOLOGIES FOR ABSENCE

Dr. J. Tuinman, Dr. K. Keough, Mr. C. McCormick, Dean G. Skanes, Dr. J. Bear, Dr. W. Davidson, Dr. P. Nosko, Dr. P. Patey, Dr. L. Pereira-Mendoza, Dr. C. Sanger, Dr. M. Withey, Mr. C. Hamm, Mr. S. Mandeville.

40. MINUTES

The minutes of the regular meeting held on January 12, 1993, were taken as read and confirmed.

Business arising from the minutes.

In a memorandum, dated January 22, 1993, the Dean of Education confirmed that the calendar entry under the heading Bachelor of Education as a Second Degree (page 211 of the 1992-93 Calendar) should be deleted as part of the changes required for entry of the regulations for the new Bachelor of Education (Secondary) degree.

41. *REPORT OF THE EXECUTIVE COMMITTEE

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

*REPORT OF THE SENATE COMMITTEE ON UNDER-GRADUATE STUDIES

41.1 Waiver of Regulations for Undergraduate Students, Fall Semester 1992

A summary of waivers of regulations and appeals considered by the Senate Committee on Undergraduate Studies in Fall

Semester, 1992, was received for information.

Calendar changes

It was agreed that the following undergraduate calendar changes be approved or received for information as appropriate:

41.2 *Faculty of Education

Revised title and course description

2222. Teaching English as a Second Language (T)(P,E,H). This course includes selection and preparation of materials, and suitable classroom strategies for teaching English as a second language. Stress will be on the methods appropriate to cope with linguistic difficulties encountered in schools by children whose first language is not English.

Under the heading Bachelor of Education (Primary) and Bachelor of Education (Elementary), Admission, delete Clause 2(g) which reads "Education 2060 (for Primary students) OR Education 2065 (for Elementary students)."

Changes in course numbers and descriptions

From "Education 2060 - Literature for Children in Primary Grades (P)" to "Education 3310 - Literature for Children in Primary Grades.

Note: Credit may not be obtained for both Education 3310 and the former Education 2060."

From "Education 2065 - Literature for Children in the Elementary Grades (E)" to "Education 3320 - Literature for Children in the Elementary Grades (E)."

"Note: Credit may not be obtained for both Education 3320 and the former Education 2065."

Page 207, 1992-93 Calendar, under the heading Suggested Course Sequence - Primary Programme, Years 4 and 5, delete "Education 2060" and add "Education 3310".

Page 208, under the heading Suggested Course Sequence - Elementary Programme, Years 4 and 5, delete "Education 2065" and add "Education 3320".

Add the following prerequisite to Education 4150:

"Prerequisite: French 3701 or permission of the instructor."

Page 206, under the heading Regulations for the Degree of Bachelor of Education (Primary), Music, and page 208, under the heading Regulations for the Degree of Bachelor of Education (Elementary), Music, amend to read:

- "Music
- 1020 and 1021, OR 2000 and 2001
- 110A and 110B
- 251A and 251B"

Page 206, under the heading Regulations for the Degree of Bachelor of Education (Primary), Linguistics, and page 208, under the heading Regulations for the Degree of Bachelor of Education (Elementary), Linguistics, amend to read:

- "Linguistics
- 1100 or 2100
- 2103, 2104, 2210
- Two of 2150, 2400 (or 2401 or 3500), 3100, 3104, 3201, 3212, 3850
- At least one of these must be a 3000-level course"

Page 229, under the heading Institutes in Education, remove the following titles and associated courses:

- "Institute for Biology Teachers"
- "Institute in Junior High School Science Education"

Delete Education 3271, 3272, and 4272.

Page 173, Biology section, delete Biology 2005.

Page 198, Science section, delete the heading Science, subheading Institute in Junior High School Science, and entire entry.

New course

Education/Linguistics 3150. Bilingualism: Linguistic, Cognitive and Educational Aspects. This course gives a comprehensive review of the major issues associated with bilingualism and second language education. It involves an interdisciplinary approach that will introduce students to the developments and major research findings in the field. Topics may include the bilingual mind, societal attitudes to bilingualism, issues in second language education and the evaluation of programmes.
Prerequisites: Linguistics 2150 or permission of the instructors.

Page 205, under the heading Faculty of Education Degree Regulations, subheading Admission, amend clause 5 to read:

"In special cases, the Committee on Undergraduate Studies, on the recommendation of the Admissions Committee, may waive the admissions requirements."

Page 205, under the heading Regulations for Re-admission and Advancement, amend clause 6 to read:

"Notwithstanding Clauses 1 through 4, the Undergraduate Studies Committee on recommendation from the Admissions

Committee reserves the right to require students to withdraw from the Faculty at any time if, in the opinion of the Committee, they are deemed unsuitable for continued attendance in the programmes."

Page 206, under the heading Bachelor of Education (Primary) and Bachelor of Education (Elementary), Admission, amend clause 5 to read:

"In special circumstances, the Undergraduate Studies Committee on recommendation from the Admissions Committee may, at its discretion, consider an applicant or group of applicants as an exception to the requirements outlined in Clauses 2 and 3."

Page 211, under the heading Bachelor of Education as a Second Degree, Admission, amend clause 7 to read... In view of the fact that the Regulations for the Bachelor of Education as a Second Degree have now been deleted from the Calendar this amendment is considered superfluous.

Page 225, under the heading Student Teaching, Education 401X, amend prerequisite to read:

"Prerequisite: Successful completion of the professional year. Students doing a concentration in French must have completed the courses in French required under the regulations for this concentration, and Education 3050. Students on the French Immersion Option of the B.Ed. (P,E) must have completed the courses in French required under the regulations for the concentration in this option, and Education 4155."

Page 222, Education 4155, amend title to read:

"Introduction to Teaching in French Immersion in the Primary and Elementary Grades (P,E,H)".

Page 202, under the heading Table of Contents, Diploma Regulations, and page 204, under the heading Diploma Programmes, delete "Diploma in Native and Northern Education (M.U.N.N.T.E.P.)".

Pages 215-216, under the heading Regulations for the Diploma in Native and Northern Education (M.U.N.N.T.E.P.), delete title and entire entry.

Page 216, under the heading Course Descriptions, Legend, delete "M: Courses for students on the M.U.N.N.T.E.P. Programme".

Delete the "M" designation only after the following course numbers and titles: Education 2202, 2222, 2245, 2430, 3081, 3573, 3582, 4330, 4331, 4430.

Page 212, under the heading Regulations for the Degree of Bachelor of Education (Native and Northern) - B.Ed.(N&N), subheading Programme for Students on the Secondary

Education Route, in clause 2.f), delete "Education 3020 and 3120" and replace with "Education 3120 and 3121".

Page 212, under the same heading, subheading Regulations for Admission/Re-Admission and Advancement, amend clause 5 to read:

"5. Students who have been admitted to the B.Ed.(N&N) will normally be governed by Regulations 2-8 of the Regulations for Re-Admission and Advancement of the Faculty of Education. For this programme only, advancement regulations will be applied upon the completion of each five course segment throughout the duration of the programme and will be assessed on the basis of the average obtained on those five courses."

Change "Education 2080. Religious Education in Primary and Elementary Grades I (P,E)" to "Education 4205. Religious Education in Primary and Elementary Grades (P,E)"; add the following note "Note: Credit may not be obtained for both Education 4205 and the former Education 2080."

Page 207, under the heading Regulations for the Degree of Bachelor Education (Primary), amend clause 3.a)ii. to read:

"Two of Education 2050, 2150, 2194, 3050, 3220 or 3230, 3480, 4205."

Page 208, under the heading Regulations for the Degree of Bachelor of Education (Elementary), amend clause 3.a)ii. to read:

"Two of Education 2050, 2194, 3050, 3120, 3220 or 3230, 3160, 4205. Students completing Music under Clause 2(f) must complete Education 3160 toward partial fulfillment of this Clause."

Page 202, under the heading Table of Contents, Diploma Regulations, and page 204, under the heading Diploma Programmes, amend "Diploma in Industrial Arts" to read "Diploma in Technology Education".

Page 214, change the heading "Regulations for the Diploma in Industrial Arts" to read "Regulations for the Diploma in Technology Education"; under the same heading,

(i) amend clause 1 to read: "1. A programme leading to the Diploma in Technology Education is offered by the Faculty of Education."

(ii) amend clause 2 to read: "2. To be admitted to the Diploma Programme in Technology Education, a student shall: ..."

(iii) amend the insert after clause 2 to read: "Admission to the programme in Technology Education requires a formal application which may be obtained from the Office of

Student Services. Application forms may be obtained by writing the Office of Student Services, Faculty of Education, Memorial University of Newfoundland, St. John's, Newfoundland, A1B 3X8."

(iv) amend clause 3 to read: "3. To be eligible for the Diploma in Technology Education, a student must have ..."

(v) amend clause 3.b)ii. to read: "3.b)ii. Seven Technology Education Technical Skills courses - Education 2750, 2751, 3750, 3751, 4750, 4751, and 4752."

(vi) amend Note 1 after clause 3 to read: "Notes: 1) The requirement of Regulation 3(c) may be extended for students who completed courses in a Technology Education programme at a recognized college or university before the appropriate courses were available at this University. For those students, a minimum of five courses, two in Education including Student Teaching and three in Technology Education Technical Skills must be completed at this University."

Page 216, under the heading Course Descriptions, amend "I: Courses for students on the INDUSTRIAL ARTS Programme" to read "I: Courses for students on the TECHNOLOGY EDUCATION Programme".

Pages 221, 224 and 225, amend course titles as follows:

3700. Student Teaching in Technology Education (I).

4752. Technology Education, Specialized (I).

4720. Principles and Management of Technology Education Programmes (V,I)(E,H).

3700. Student Teaching in Technology Education (I).

Pages 216-225, in the course descriptions for the following courses, change from "(See course description in Industrial Arts Section)" to "(See course description in Technology Education Section)":

Education 2750 (page 218)

Education 2751 (page 218)

Education 3700 (page 221)

Education 3750 (page 221)

Education 3751 (page 221)

Education 4750 (page 224)

Education 4751 (page 224)

Education 4752 (page 224)

Education 3700 (page 225)

Page 218, Education 2751, change title to: "Introductory Communications and Power Technology (I)."

Page 221, Education 3751, change title to: "Intermediate

Communications and Power Technology (I).

Courses in Industrial Arts (pages 228-229)

Change description for Education 2750 to read: "Theory and practice of selected technical skills in materials and processes and their practical application in the laboratory. Topics and practical activity will include production techniques using computer integrated design systems."

Change title and description for Education 2751 to read: "Theory and practice of selected technical skills in communications and power and their practical application in the laboratory. Topics will include integrated systems approach involving electrical, mechanical and fluid power to explore power development, control, and use."

Change description for Education 3750 to read: "Theory and practice of selected intermediate technical skills and in materials and processes and their practical application in the laboratory. Advanced topics will include in-depth view of emerging manufacturing practices."

Change title and description for Education 3751 to read: "Theory and practice of selected intermediate technical skills in communications and power and their practical applications in the laboratory. Topics will include emerging means of communicating information and advanced energy control systems."

Change description for Education 4750 to read: "Theory and practice of selected advanced technical skills in materials and processes and their practical applications in the laboratory. Topics will include home technology and marine technology."

Change description for Education 4751 to read: "Theory and practice of selected advanced technical skills in communications and power and their practical application in the laboratory. Topics include mechanical, digital and fluidic systems."

Page 226, under the heading Waiver Guidelines of Education 3700, 4007, 4700, Post-Sessional Block, and 401X, amend clause 2, paragraph 3 to read:

"Students requesting a waiver of Education 3700 must have completed at least one of these three years in Technology Education Teaching. Students requesting a waiver of Education 4700 must have completed at least one of these three years in Vocational Education teaching."

Page 228, under the heading Courses in Industrial Arts, amend heading to read "Courses in Technology Education" and amend first paragraph to read:

"These courses are designed for students registered in the Diploma Programme in Technology Education and can be used for credit only on this Diploma Programme."

41.3 *Medieval Studies Programme

New course

3002. Folklore in Medieval Society. (Same as Folklore 3940). An examination of selected aspects of medieval society which both develop earlier features of western culture and evolve into recognisable modern forms. These aspects may include such topics as legend and folktale, folksong and ballad, custom, belief, folk speech, drama, games and recreations, material culture and vernacular architecture.

Prerequisite: MST 2000, 2001 or 2002.

Under the heading Regulations: Majors, delete "(2) MST 3000 and 3001" and add "(2) Two of MST 3000, 3001, 3002".

Under the heading Regulations: Minors, delete "(2) MST 3000 and 3001" and add "(2) Two of MST 3000, 3001, 3002".

Add to list A:

"Linguistics 2500: Language Families and Linguistic Change"

"Linguistics 3500: Historical Linguistics"

"History/Classics/Religious Studies 3270: Christianity and the Roman Empire"

Under the heading Regulations: Majors:

(i) add as first paragraph before "Students electing Medieval Studies" the following:

"Students majoring in Medieval Studies shall discuss their programme with the Programme Supervisor or delegate."

(ii) delete "(3) Two of MST 4000-4020" and add: "Two courses at 4000 level one of which must be from MST 4000-4020 and one which may be from List A 4000 level courses."

(iii) amend clause (5) to read:

"Four further courses from List A below to include one course at the 2000 level, one at the 3000 level and one at the 4000 level."

(iv) delete clause (6) and replace with:

"No more than two courses counted for a student's first major may be counted towards the Major in Medieval Studies."

Under the heading Regulations: Minors:

(i) add as first paragraph before "Students selecting..." the following:

"Students pursuing a minor in Medieval Studies shall discuss their programme with the Programme Supervisor or delegate."

(ii) amend clause (4) to read:

"Three further courses from List A below, normally to include at least one from the 3000 level and one from the 4000 level."

(iii) delete clause (5) and replace with:

"No more than one course counted for a student's major may be counted towards the Minor in Medieval Studies."

Add the following under List A after "Religious Studies 3591":

(At the request of the Chairman, Senate Committee on Undergraduate Studies, it was agreed to delete Music 4001-4005, Religious Studies 4300-4320 and Religious Studies 4700-4720 from the list of courses.) The calendar entry now reads:

"4000 Level Courses

Classics 4270
Classics 4271
English/Linguistics 4403
English 450A/B
English 460A/B
French 4030
French 4031
German 4300
German 4301
History 4000-10
Linguistics 4350
Linguistics 4400
Philosophy 4700
Spanish 4000
Spanish 4001"

41.4 *Department of English Language & Literature

Revised course description

English 3153. Canadian Literature, 1918-1945. A study of the development of modern Canadian literature, covering the period from the end of World War I to 1945.

Note: This course may not be taken for credit by students who have completed English 3150.

41.5 *Department of Anthropology

Revised title

Anthropology 3064. Anthropology and the Study of Social Problems.

In the calendar description for Anthropology 4422, The Craft of Writing Anthropological Narrative, delete the words "senior students in any of the social sciences" and replace with "senior student in any discipline".

Page 91, 3053, Anthropology of Religion, after the title add "(Same as Religious Studies 3053)".

After the descriptions of Anthropology 2430, Physical Anthropology: The Human Animal, and 2480, Archaeology: Discovering Our Past, add: "Prerequisite: Anthropology 1030."

41.6 *Department of Religious Studies

New course

3053. Anthropology of Religion. (Same as Anthropology 3053.) A critical evaluation of anthropological research on religion, centering on seminal thinkers and major theoretical traditions. Special attention is given to the study of belief systems, and to relationships between belief and ritual. Credit may not be obtained for both Religious Studies 3053 and Anthropology 3316.

41.7 *Department of German and Russian

Page 114, 1992-93 Calendar, under the heading General Degree, (i) bottom of second paragraph, delete "Most Majors are also strongly advised to take German 2010, 2011 concurrently with 2510, 2511."

(ii) amend last paragraph to read:

"The following courses 2030, 2031, 2900, 2901, 2910, 3911, 3912 and 3913, may not be used as part of the Faculty of Arts requirement of two courses in a second language."

Revised course descriptions

German 2510, delete "Students majoring or minoring in German should take this course jointly with German 2010."

Russian 2010, delete "Russian literature, including texts of a scientific and technical nature." and replace with "Russian texts from literature or newspapers."

Russian 2510, delete entire course description and replace with "The goal of this course is to increase fluency in speaking and writing Russian."

Russian 2511, delete "This course is intended for students

majoring in Russian and should be taken concurrently with Russian 2011."

Russian 2601, delete "including Gorky, Blok, Mayakovsky, Bunin, Pasternak, Sholokhow and Solzhenitsyn." and replace with "of the pre-revolutionary, Soviet and post-Soviet periods."

Russian 2901, insert "and during the post-Soviet period" following "A study of the evolution of culture in the USSR".

Russian 3011, delete "authors of Russian poetry and literary criticism of the nineteenth and twentieth centuries" and replace with "texts from Russian short stories, magazines and newspapers".

Russian 3900, insert "with particular emphasis on stylistic characteristics of the authors studied and the evolution of the Russian literary language." following "... authors of poetry and prose".

Russian 3901, insert at the beginning of the course description "A continuation of Russian 3900".

Russian 4200, delete "Fadeyev".

41.8 *Department of History

Page 116, 1992-93 Calendar, insert prior to the Course List the following:

"The Department of History offers a specialization in Maritime History. Recommended courses include History 2100, History 2110, History 3670, History 3680, History 3690, and two courses from History 4670-4690."

New courses

3670. Maritime History in the Age of Discovery, 1450-1650. The maritime expansion of Europe, considered in its technological, economic, naval, and social dimensions, 1400-1650.

Credit may not be obtained for both History 3670 and the former History 3802.

4670-4690. Special Topics in Maritime History. Specialized studies in Maritime History. Aspects to be studied will be announced in the History Department Brochure.

Revised title

History 3680. Maritime History of the North Atlantic, 1650-1850.

41.9 *Department of Political Science

Revised title and course description

3320. Comparative Politics: State and Politics in the USSR and the Commonwealth of Independent States. This course is designed as a general survey of politics and government in the Soviet Union and the Commonwealth of Independent States. The development of Soviet and post-Soviet politics will be analyzed with special attention being paid to political leadership and its relation to the promotion of political change and continuity.

Page 124, under the heading Prerequisites, delete paragraphs 1 and 2 and replace with:

- "1. No prerequisites will apply to Political Science courses unless specified. Students, however, are encouraged to ensure that they have adequate preparation for courses in which they intend to register.
2. Since Political Science 2710 and one of Political Science 2200 or 2300 are required for all majors, and 2710 is required for minors, it is strongly recommended that these courses be taken no later than in a student's second year.
3. Students should complete at least two courses with the initial digit '2' before registering in a course with the initial digit '3'.
4. Students should complete at least two courses with the initial digit '3' before registering in a course with the initial digit '4'.
5. Students are strongly encouraged to consult with their faculty advisor prior to registration in each semester."

Pages 125-128, delete all existing prerequisites from Political Science courses except for Political Science 3711 which is cross-listed with Economics 3711, AND Political Science 3030 which is cross-listed with Sociology 3030, AND Political Science 3011 which is in essence a linked course with Political Science 3010.

41.10 *Department of Folklore

Page 103, 1992-93 Calendar, under the heading General Degree:

(i) delete first sentence and replace with: "The study of Folklore deals with oral literature and traditional culture."

(ii) delete paragraph four and replace with:

"Folklore 1000 (or 2000) is the prerequisite for all other courses in Folklore, except 1050, 1060 and those courses

cross-listed with other Departments.

MAJOR IN FOLKLORE

A student registered to major in Folklore must take a minimum of twelve courses including:

- Five required courses

1000 (or 2000): Introduction to Folklore
2100: Folklore Research Methods
2300: Newfoundland Folklore
2401: Folklife Studies
2500: Folk Literature

- Two courses from Group A - Folk Literature Genres

3100: Folktale
3130: Greek and Roman Myths
3200: Folksong
3250: Ballad
3300: Folk Drama
3450: Language and Play

- Two courses from Group B - Folklife Genres

3820: Folk Custom
3830: Foodways
3850: Material Culture
3860: Vernacular Architecture
4460: Folk Religion

- Two courses from Group C - Topics -- not more than one of which can be at the 1000 level

1050: Folklore Studies
1060: Folklore and Culture
3910: Occupational Folklife
3920: Folklore and Education
3930: Folklore and Popular Culture
3940: Folklore and Medieval Society
4440: Music and Culture
4450: Folklore and Literature
4480: Folklore and Oral History

- One course from Group D - Regions

2230: Newfoundland Society and Culture
4300: Folklore of Canada
4310: Studies in Newfoundland Folklore
4320: Folklore of the U.S.
4350: Folklore of the British Isles
4360: Traditional Culture of Scotland
4370: Culture and Tradition of Ireland
4400: Traditional Culture of French Newfoundland
4410: Folklore of France
4420: French Folklore in the New World

Students who declare a major in Folklore should have completed Folklore 1000 (or 2000): Introduction to Folklore and Folklore 2100: Folklore Research Methods."

(iii) delete paragraph five and replace with:

"All students who major in Folklore will be assisted by a faculty advisor who will help them in planning their academic programme. Consequently, it is essential that students consult with the Department at an early stage in their studies."

(iv) paragraphs six, seven, and eight, re-order as follows:

Paragraph Six: Minor in Folklore

Paragraph Seven: Honours Degree in Folklore

Paragraph Eight: Combined Honours Degree in Folklore and English or Sociology/Anthropology or Others

Page 104, under the heading Minor in Folklore, delete description and replace with the following:

"A student declaring a minor in Folklore must take a minimum of eight courses including:

- Five required courses

1000 (or 2000): Introduction to Folklore

2100: Folklore Research Methods

2300: Newfoundland Folklore

2401: Folklife Studies

2500: Folk Literature

- Three additional courses - not more than one of which can be at the 1000 level.

Students who declare a minor in Folklore should have completed Folklore 1000 (or 2000): Introduction to Folklore and Folklore 2100: Folklore Research Methods."

Folklore 1050, add: "Note: There is no prerequisite for this course. However, students should note that they will need to take Folklore 1000 (or 2000) before they can advance to other courses."

New courses

1060. Folklore and Culture. An introduction to traditional expressive behaviour as cultural experience. Readings and lectures will explore the various meanings of "culture" from interdisciplinary perspectives and link the development of theoretical approaches to culture (evolutionary, materialist, particularist, psychological, semiotic, dramaturgic) to specific folkloric phenomena. Illustrations will derive primarily from children's folklore, material culture, and occupational folklife.

Note: There is no prerequisite for this course. However,

students should note that they will need to take Folklore 1000 (or 2000) before they can advance to other courses.

2100. Folklore Research Methods - An Introduction. This course is designed to provide the basic introduction to the research resources, tools and methods regularly employed in the area of Folklore. On the one hand, the course will examine what types of Library and Archive resources can be useful to the folklorist and, on the other hand, it will explore how folklorists in fieldwork situations should handle people, and how they can capture for posterity a record of the interviews that they have conducted and the events that they have observed.

Note: This course is a prerequisite for all majors and minors taking 3000 and 4000 level courses.

3820. Folk Custom. This course provides an introduction to the study of the forms of British, European, and North American folk custom. Issues for discussion will include the diffusion, functions, maintenance and invention of calendar, seasonal, occupational, and life-cycle customs. As such, we will review much of the new scholarship which has shifted folkloristic attention from origins of customs to the analysis of custom as symbolic behaviour. Current work on the study of custom has examined for example, the legitimation of class interests via traditional customs, the play of metaphor in festivals, and the symbolic statement of social obligations through life-cycle ritual.

Note: Credit may not be obtained for both Folklore 3820 and the former Folklore 3600.

3830. Foodways. The term foodways embraces a variety of traditions which focus on dietary practices as well as the preparation and allocation of food. As an introduction to the foodways, the course will begin by looking at a variety of regional foods. However, in addition, both historical and contemporary approaches to the supply, storage, preparation and serving of food will be considered. In fact, we will be looking, from both a practical and theoretical perspective, at the whole range of cookery and food habits - from the acquisition of raw materials to the allocation of portions.

3910. Occupational Folklife. Readings, lectures, and directed fieldwork aimed at identifying, documenting, and analyzing the role of tradition in contemporary occupational groups and work settings. Interdisciplinary theoretical perspectives on the nature of work and the characteristics of traditional, industrial and service occupations will be examined. Major topics of study will include work techniques, the uses of verbal and non-verbal codes, alienation, defensive behaviour, and labourlore.

3940. Folklore in Medieval Society. (Same as Medieval Studies 3002). An examination of selected aspects of medieval society which both develop earlier features of western culture and evolve into recognisable modern forms.

These aspects may include such topics as legend and folktale, folksong and ballad, custom, belief, folk speech, drama, games and recreations, material culture and vernacular architecture.

Folklore 3100, Folktale, delete the words "with some examination of primitive folktales".

Folklore 3600-3610, Special Topic in Folklore, change "3600" to "3601".

Folklore 4320, Folklore of the United States, change "Afro-" to "African".

Folklore 4350, Folklore of the British Isles, change "Gaelic" to "Celtic".

Folklore 4440, Music and Culture, delete the prerequisite.

Folklore 4450, Folklore and Literature, delete the prerequisite.

Folklore 3600-3610, Special Topic in Folklore, change "3601-3610" to "3601-3620".

Folklore 4500-4510, Special Topic in Folklore, change "4500-4510" to "4500-4520".

Folklore 4600-4605, Special Research in Folklore, change "4600-4605" to "4600-4615".

Folklore 4700-4705, Directed Reading Course, change "4700-4705" to "4700-4715".

41.11 *Department of Linguistics

New course

3150. Bilingualism: Linguistic, Cognitive and Educational Aspects. (Same as Education 3150). This course gives a comprehensive review of the major issues associated with bilingualism and second language education. It involves an interdisciplinary approach that will introduce students to the developments and major research findings in the field. Topics may include the bilingual mind, societal attitudes to bilingualism, issues in second language education and the evaluation of programmes.

Prerequisites: Linguistics 2150, or permission of the instructors.

Revised course description

4150. Second Language Acquisition II (W). This course will provide a comprehensive evaluation of recent theoretical and experimental work in second language development. Topics include the role played by linguistic universals in the language learning process, the question

of language transfer, the effects of age, the context of learning, individual differences, cognitive processes, as well as social and psychological factors involved in second language acquisition. Current theoretical models including the principles and parameters framework will be discussed. (Usually offered in alternate years.)
Prerequisite: Linguistics 2150. Linguistics 2104 is also recommended.

In the course titles for Linguistics 3100 and 4110, replace the word "Transformational" with "Generative".

41.12 *Department of Computer Science

Page 179, 1992-93 Calendar, Computer Science 1700, (i) add to the course description the following:

"Lectures: Three hours per week.
Laboratory: Three hours per week."

(ii) delete the following sentence in the note: "It is intended that this course become a prerequisite for further Computer Science courses."

Page 179, revise note after Computer Science 2602 to read "former" 2800.

Computer Science 2810, (i) revise prerequisite to read: "Computer Science 2602, 2801 or the former Computer Science 2800"; (ii) revise note to read: "... Computer Science 2602, or the former Computer Science 2600, 2601 or 2800."

Computer Science 2752, revise prerequisite to read: "Prerequisite: Computer Science 2602 or 2700 or the former 2800."

Computer Science 3753, revise prerequisite to read: "Prerequisite: Mathematics 2050 and one of Computer Science 2700, 2602 or the former 2800."

In the course description for Computer Science 3731, (i) replace "Floating point arithmetic" with "computer arithmetic"; (ii) delete "error analysis, propagation of errors"; and (iii) replace "Ax=b" with "systems of linear equations; norms; condition number".

In the course description for Computer Science 3751, (i) delete "Algebra of Linear Inequalities, simplex method, duality theory"; and (ii) insert "Integer Programming".

In the course description for Computer Science 3753, (i) replace "The Karmarker algorithm for the LPP" with "Principles of interior algorithms for the LPP"; and (ii) delete "Integer Programming".

In the course description for Computer Science 4734, (i) delete "condition numbers"; and (ii) delete "rounding error

analysis of Gaussian elimination".

Page 179, add the following section after the section entitled "Faculty Advisors":

"UNDERGRADUATE HANDBOOK

Additional information about the undergraduate Computer Science programmes and courses can be found in the Computer Science Undergraduate Handbook available from the General Office, Department of Computer Science."

New courses

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 programmes are given.

Lectures: Three hours per week.

Laboratory: Three hours per week.

Prerequisite: Computer Science 1700.

Note: Credit cannot be obtained for both Computer Science 2710 and 2700.

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: Credit cannot be obtained for both Computer Science 2711 and 2701.

2740. Logic for Computer Science (F) & (W). Basic concepts of logic. Propositional logic and its proof system. Predicate calculus and its proof system. Applications in computer science and logic programming.

Prerequisite: Computer Science 1700.

2741. Mathematical Structures in Computer Science (F) & (W). This course provides the student with basic mathematical frameworks for the study and exploitation of formalism and abstractions in computer science. The close connection between mathematical ideas and algorithmic concepts is demonstrated via selected examples from computer science.

Prerequisite: Computer Science 2710 and 2740.

3740. Abstract Machines, Languages and Computations (F) & (W). This course introduces students to formal grammars and languages, including context-free grammars, pushdown

automata, Turing machines and computability. Decision problems and elements of computational complexity are also introduced.

Prerequisite: Computer Science 2711 and 2741.

Page 178, under the heading Major in Computer Science, delete clauses 1., 1.a) and 2 and replace with the following:

"1. Fifteen Computer Science courses are required for a major in Computer Science.

a) Computer Science 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740.

2. Additional courses required of the Majors are

- Mathematics 2000, 2050
- Statistics 2510, and
- one additional Mathematics course at the 2000 level or beyond, excluding Mathematics 2090"

Page 178, under the heading Honours in Computer Science, delete clauses 2.a), 2.c) and 3 and replace with the following:

"2. Twenty-one Computer Science courses are required for the Honours Degree in Computer Science, including:

a) Computer Science 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740 and 4780.

c) Four other Computer Science courses at the 3000 level or beyond.

3. Additional courses required of the Honours student are:

- Mathematics 2000, 2050
- Statistics 2510 and
- one additional Mathematics course at the 2000 level or beyond, excluding Mathematics 2090."

Page 179, under the heading Minor in Computer Science, delete clause 1.a) and replace with the following:

"a) Computer Science 1700, 2710, 2711, 2740, 2741."

Page 179, Computer Science 2700, add the following note:
"Note: Credit cannot be obtained for both Computer Science 2700 and 2710."

Page 179, Computer Science 2701, add the following note:
"Note: Credit cannot be obtained for both Computer Science 2701 and 2711."

Revised prerequisites

Computer Science 2752, Prerequisites: Computer Science 2602, 2700, 2710 or the former 2800.

Computer Science 3710, Prerequisites: Computer Science 2701 or 2711.

Computer Science 3714, Prerequisites: Computer Science 3712 and 3741, or 3740 and 3724.

Computer Science 3724, Prerequisites: Computer Science 2721, or 2711 and 2741.

Computer Science 3731, Prerequisites: Computer Science 2602, 2700 or 2710 and Mathematics 2000.

Computer Science 3753, Prerequisites: Mathematics 2000 and one of Computer Science 2700, 2710, 2602 or the former 2800.

Joint Programmes

Page 167, under the heading Joint Honours Degree in Computer Science and Geography, delete clauses 1.a), 1.c) and the sentence following and replace with:

"a) 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740.

c) One additional course at the 3000 level or beyond.

The six courses from (b) and (c) must include courses from at least three of the five areas of Computer Science."

Page 167, under the heading Statistics/Computer Science Joint Honours (B.Sc. only), delete clauses c) and d) and replace with the following:

"c) Computer Science 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740 and 4734;

d) Four further courses in Computer Science numbered 4000 or higher, but not including 4780; (These four courses must include courses from at least three of the five areas);"

Page 167, under the heading Pure Mathematics/Computer Science Joint Honours (B.Sc. only), delete clause a) and replace with the following:

"a) 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740;"

Page 168, under the heading Joint Major in Computer Science and Geography, delete clauses 1.a) and 1.c) and replace with the following:

"a) 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740.

c) One additional course at the 3000 level or beyond."

Page 168, under the heading Statistics/Computer Science Joint Major (B.Sc. only), delete clause a) and replace with the following:

"a) Computer Science 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740 and 4734."

Page 168, under the heading Joint Major in Computer Science and Physics, delete clause 2.a) and replace with the following:

"a) 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, and 3740."

Page 168, under the heading Pure Mathematics/Computer Science Joint Major (B.Sc. only), delete clause a) and replace with the following:

"a) Computer Science 1700, 2710, 2711, 2740, 2741, 3714, 3724, 3725, 3731, 3740;"

41.13 *Department of Mathematics and Statistics

Revised prerequisites

AM 3190, Prerequisites: AM 2130 and AM/PM 3260. ST 2510 is highly recommended.

AM/PM 3202, Prerequisites: Either (i) M 2001 and M 2050 or (ii) M 2000, M 2050 and two of the following Physics courses: P 2053, P 2054, P 2055, P 2056.

Delete PM 4380-4390, Special Topics in Pure Mathematics;
add:

"4280-4290. Special Topics in Pure and Applied Mathematics.

Prerequisite: Permission of Head of Department.

Note: Consult the department for a list of titles and information regarding availability."

Page 185, 1992-93 Calendar, under the heading Regulations, delete clause 1 and replace with the following:

"The department administers a skills diagnostic called the Math Skills Inventory (MSI). It may be written only once, normally in the Spring or in the Fall. Consult the department for exact times and locations. The MSI may be used by students to assess preparedness for university mathematic courses and it is one way for students completing high school (Academic) Mathematics 3203 to qualify for entry to Math 1080. See the Math 1080 calendar listing for complete prerequisites."

Revised prerequisite

Math 1080, Prerequisite: One of the following: (i) Level III Advanced Mathematics; (ii) Level III Academic Mathematics with a grade of at least 70%; (iii) Level III Academic Mathematics and a Math Skills Inventory score of at least 50%; (iv) M104F.

Add the following note after AM 4102 and PM/ST 4402:

"Note: Credit cannot be obtained for both AM 4102 and PM/ST 4402."

41.14 *Department of Chemistry

Page 176, 1992-93 Calendar, under the heading General Degree - Major in Chemistry, subheading Required Courses, amend clauses a) and b) to read:

"a) Chemistry 1000 and 1001 (or their equivalents), 2300, 2210, 240A/B, 3100, 3211, 3300, 3301, 3400, 3401, 3500 and 4100 or 4101.

b) Physics 1050 and 1052 (or 1200, 1201 and 2050), 2054 and 2056."

Page 176, under the heading Honours Degree in Chemistry, subheading Required Courses, amend clauses a) and b) to read:

"a) Chemistry 1000 and 1001 (or their equivalents), 2300, 2210, 240A/B, 3100, 3211, 3300, 3301, 3400, 3401, 3500, 4100 or 4101, 4300, 4301, 4999, two selected from 4200-4204, and a selection from the remaining 4000 level courses.

b) Physics 1050 and 1052 (or 1200, 1201 and 2050), 2054 and 2056."

Chemistry 2210, (i) insert "(F) and (W)" to read: "2210. Introductory Inorganic Chemistry (F) and (W)."; (ii) amend prerequisites to read: "Prerequisites: Chemistry 1001 and Mathematics 1000 or 1081."

Chemistry 2300, (i) insert "and (W)" to read: 2300. Introductory Physical Chemistry (F) and (W).; (ii) amend prerequisites to read: "Prerequisites: Chemistry 1001, Mathematics 1001, Physics 1052 or 1201."

Chemistry 3100, add "(F) and" to read: 3100. Analytical Chemistry I (F) and (W).

Chemistry 3300, amend prerequisites to read: "Prerequisites: Chemistry 2300, Mathematics 2000, Physics 1052 (or 2050) and 2054. Permission may be given to take Physics 2054 concurrently with Chemistry 3300."

Chemistry 4100, amend prerequisites to read:

"Prerequisites: Chemistry 3100 and 3300. Chemistry 3300 may be taken concurrently with Chemistry 4100."

Chemistry 4101, amend prerequisites to read:
"Prerequisites: Chemistry 3100 and 3301. Chemistry 3301 may be taken concurrently with Chemistry 4101."

Revised title and course description

4201. Coordination Chemistry in Biological Molecules - Structural, Mechanistic and Magnetic Studies. The role of certain transition elements e.g. iron, copper, cobalt, and zinc, in proteins and enzymes will be discussed in terms of structural features, the natural ligands, magnetic properties, mechanisms, etc., and reinforced with examples of 'model compounds'. Magnetic theory, in particular for polynuclear transition metal complexes, will also be developed.

Prerequisite: Chemistry 3211.
Lectures: Three per week.

Page 165, under the heading Chemistry/Biochemistry Joint Honours Degree, (i) amend clause c) to read:

"c) Chemistry 240A/B, 2210, 2300, 3100, 3400, 3401, 3500, 3211, 3300, 3301, 4100 or 4101 and one further 4000-level Chemistry course."

(ii) amend the paragraph "Year 5: Biochemistry 499B" to read: "Year 5: Chemistry 4100 or 4101 and one other ..."

41.15 *Department of Geography

Page 110, 1992-93 Calendar, under the heading Major in Geography (B.A. or B.Sc.), delete last paragraph and replace with the following:

"Bachelor of Science candidates must complete courses from other Science departments as follows: two 1000-level courses in each of Chemistry, Mathematics and Physics; two 1000-level courses in Biology and/or Earth Sciences, and five additional Science credits outside Geography at the 2000-level or above."

41.16 *Department of Physics

Revised prerequisites

Physics 2055, Prerequisites: Physics 2054, Mathematics 2000 and Mathematics 2050. Mathematics 2000 and/or Mathematics 2050 may be taken concurrently."

Physics 3550, Prerequisites: Physics 2055, Mathematics 2050 and Applied Mathematics/Pure Mathematics 3260 which may be taken concurrently.

Physics 3810, Prerequisites: Mathematics 2000, Mathematics 2050 and two of Physics 2053, 2054, 2055 or 2056.

Page 191, under the heading Major in Physics, amend clause c) to read:

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

Page 191, under the heading Major in Physics, after clause e), amend the first sentence to read:

"Mathematics 1001, 2000 and 2050 are prerequisites to many Physics courses and should be completed by the end of second year."

Page 191, under the heading Honours in Physics, amend clause c) to read:

"c) Mathematics 2000, 2050, 2001, Applied Mathematics/Pure Mathematics 3260."

Page 192, under the heading Honours in Physics, amend the entry for year II to read:

"II	Mathematics 2000	Mathematics 2001
	Mathematics 2050	Physics 2055
	Physics 2053	Physics 2056
	Physics 2054	Applied Mathematics/Pure
		Mathematics 3260
	Elective	Elective"

Page 191, under the heading Major in Physics, (i) amend clause e) to read:

"e) A minimum of 11 additional courses in Physics which shall include courses numbered 2053, 2054, 2055, 2056, 3220, 3400, 3500, 3550, 3750, 3751, and 3900."

(ii) add clause f):

"f) Physics 3810 or AM/PM 3202"

(iii) in the paragraph after the new item f), change the first sentence to read:

"Mathematics 1001, 2000 and 2050 are prerequisites to many Physics courses and should be completed by the end of second year."

Page 191, under the heading Honours in Physics, (i) delete 3810 from the list of courses under clause e); and (ii) add clause f): "f) Physics 3810 or AM/PM 3202."

Page 168, under the heading Physics/Chemistry Joint Honours, (i) amend clause c) to read:

"c) A minimum of fifteen additional courses in Physics, which shall include 2054, 2055, 2056, 3220, 3230, 3500, 3750, 3751, 3820, 3821, 3900, and at least four courses numbered 4000 or higher."

(ii) relabel clauses d) and e) as e) and f) respectively; and

(iii) add a new clause d) as follows:

"d) Physics 3810 or AM/PM 3202."

Page 168, under the heading Joint Major in Computer Science and Physics, amend clause 4. to read:

"4.a) At least eleven additional Physics courses including: 2053, 2054, 2055, 2056, 3220, 3400, 3500, 3550, 3750, 3751, and 3900.

b) Physics 3810 or AM/PM 3202."

41.17 *Department of Earth Sciences

Page 181, 1992-93 Calendar, under the heading Earth Sciences, delete entry under this heading.

Under the heading Programmes in Earth Sciences, delete entire entry and replace with the following:

"The following undergraduate programmes are available:

- Major or Honours in Earth Sciences (Geology)
- Major or Honours in Earth Sciences (Geophysics)
- Joint Major or Honours in Earth Sciences/Physics
- Joint Honours in Biology and Earth Sciences (Geology)
- Joint Honours in Earth Sciences (Geology)/Chemistry

Details of joint programmes are given after the Faculty of Science Honours B.Sc. Regulations."

Page 181, delete the heading "General B.Sc. Degree in Geology" and replace with "General B.Sc. Degree in Earth Sciences (Geology)", under the same heading

(i) amend first line under the heading to read:

"For the General B.Sc. Degree in Earth Sciences (Geology), the following courses will be required:";

(ii) in clause b), delete "2501" and replace it with "2502, 2503";

(iii) in clause b), the text after the first semi-colon, should be replaced by: "at least three of Earth Sciences 3170, 3172, 3210, 3600, 3611 and 3811"

(iv) in clause c), delete "Chemistry 2300";

(v) change the word "Geology" in the last paragraph before Notes to "Earth Sciences (Geology)";

(vi) change the word "Geology" in Note 2 to "Earth Sciences (Geology)".

Page 181, delete the heading "Honours B.Sc. Degree in Geology" and replace with "Honours B.Sc. Degree in Earth Sciences (Geology)", under the same heading

i) first line of the first paragraph, change "Geology" to "Earth Sciences (Geology)";

(ii) in clause b), delete "2501" and replace it with "2502, 2503";

(iii) in clause c), delete "Chemistry 2300";

(iv) change the word "Geology" to "Earth Sciences (Geology)" in Note 2.

Page 182, under the heading Table of Credit Restrictions for Present Earth Sciences Courses with Former Courses, change "ES 2501" in the PRESENT column to "ES 2502" and add "ES 2501" to the equivalent list of courses in the FORMER EQUIVALENTS column to read:

"ES 2502 = ES 2501, ES 3200, GEOL 3200"

Page 182, delete the heading "Programmes in Geophysics and Geology/Geophysics" and replace with "Programmes in Earth Sciences (Geophysics)", under the same heading

(i) delete first paragraph and replace with the following:

"The Earth Sciences Department offered programmes in Geophysics and Honours Geophysics until late 1992. These programmes, with little modification, appear in this calendar as Joint Major and Joint Honours programmes in Earth Sciences and Physics. Programmes in the Earth Sciences section of the calendar require fewer Physics courses than the Joint programmes."

(ii) in the Note, delete "Geophysics" and add "Earth Sciences (Geophysics)".

Delete General B.Sc. in Geophysics, and the entire entry.

Delete Honours B.Sc. in Geophysics, and the entire entry.

Delete Geophysics Option Programme, and the entire entry.

Delete the heading "General B.Sc. Degree in Geology/Geophysics" and replace with "General B.Sc. Degree in Earth Sciences (Geophysics)", under the same heading

(i) in the first sentence, delete "Geology/Geophysics" and replace it with "Earth Sciences (Geophysics)".

(ii) in clause b), delete "2501" and replace it with "2502, 2503";

(iii) in clause b), delete "3210";

(iv) in clause c), delete "3810";

(v) relabel clauses d) and e) to e) and f);

(vi) add a new clause d) as follows: "d) One of Physics 3810 or Applied Mathematics/Pure Mathematics 3202."

(vii) in old clause d), delete "Chemistry 2300" and add "Mathematics 2050";

(viii) in the last paragraph, delete "Geology/Geophysics" and replace with "Earth Sciences (Geophysics)".

Delete the heading "Honours B.Sc. Degree in Geology/Geophysics" and replace with "Honours B.Sc. Degree in Earth Sciences (Geophysics)", under the same heading

(i) in the first sentence, delete "Geology/Geophysics" and replace it with "Earth Sciences (Geophysics)".

(ii) in clause b), delete "2501" and replace it with "2502, 2503";

(iii) in clause c), delete "3810";

(iv) relabel clauses d) and e) to e) and f);

(v) add a new clause d) as follows:

"d) One of Physics 3810 or Applied Mathematics/Pure Mathematics 3202"

(vi) in old clause d), delete "Chemistry 2300" and add "Mathematics 2050".

Page 183, under the heading General Notes For All Earth Sciences Programmes and Courses, paragraph 2) "Students wishing to take some Earth Sciences courses without intending to major in Geology or Geophysics ..." should be replaced with "Students wishing to take some Earth Sciences courses without intending to major in Earth Sciences (Geology) or Earth Sciences (Geophysics) ...".

Earth Sciences 2030, delete corequisite and replace with: "Co-requisite: Earth Sciences 2501."

Earth Sciences 2031, delete corequisite and amend prerequisites to read: "Prerequisites: Earth Sciences 2030, 2502."

Delete Earth Sciences 2033 and 2501.

New courses

2502. Geochemistry of Earth Materials I (F). The course provides an overview of geochemistry including the origin and classification of elements, radioactivity and geologic time, and chemical differentiation of the solar system and solid Earth. The geochemistry of oceans, atmosphere, sediments and sedimentary rocks, and geochemical cycling and mixing at all scales also will be discussed. This course has a laboratory component that emphasizes analytical geochemistry skills.

Prerequisite: Chemistry 1001.

2503. Geochemistry of Earth Materials II (W). The course builds on material from ES 2502 focusing on the transfer of mass and energy in high and low-temperature geochemical systems. Topics to be covered include phase equilibria and their applications to magmas, metamorphic and sedimentary systems and geochemical fluids. Application of kinetic principles to these systems also will be presented. This course has a laboratory component that emphasizes problem solving and computer simulation.

Prerequisite: Earth Sciences 2502.

Revised prerequisites

Earth Sciences 3053, Prerequisites: Earth Sciences 2031 and 2503.

Earth Sciences 3400, Prerequisites: Earth Sciences 2310 and 2400.

Earth Sciences 3600, Prerequisites: Earth Sciences 2503, Biology 2120.

Earth Sciences 3701, Prerequisites: Earth Sciences 2310 and 2031.

Earth Sciences 4503, Prerequisites: Earth Sciences 3210, Geography 3150.

Earth Sciences 4601, Prerequisites: Earth Sciences 2503, 3701 and 3170 (or 3172).

Earth Sciences 4610, Prerequisite: Earth Sciences 2503.

Earth Sciences 4902, in the last sentence, delete "origin of the biosphere", the last sentence should read "...; topics include the thermal evolution of the Earth and crust-mantle-core interactions."

Joint Programmes - new entries

JOINT MAJOR IN EARTH SCIENCES/PHYSICS

This programme was formerly in the Earth Sciences section of the calendar as a General B.Sc. Degree in Geophysics. The following courses will be required:

- a) English 1080 & 1110 (or equivalents), Mathematics 1000 (or 1080 & 1081) & 1001, Earth Sciences 1000 & 1001, Chemistry 1000 & 1001, Physics 1050 & 1052 (or Physics 1200, 1201 & 2050).
- b) Earth Sciences 2030, 2031, 2310, 2400, 2502, 3161, 3170, 3172, 3400; plus at least one Earth Sciences 4100 series course.
- c) at least 10 Physics courses at the 2000 level or higher, including Physics 2054, 2055, 2056, 3220, 3500.
- d) One of Physics 3810 or Applied Mathematics/Pure Mathematics 3202.
- e) Mathematics 2000 and 2050.
- f) Other courses to complete at least a minimum requirement of forty courses for the General Degree.

Any change in the programme of study must have the prior approval of the Heads of the two Departments concerned.

JOINT HONOURS IN EARTH SCIENCES/PHYSICS

This programme was formerly in the Earth Sciences section of the calendar as an Honours B.Sc. Degree in Geophysics. The following courses will be required:

- a) English 1080 & 1110 (or equivalents), Mathematics 1000 (or 1080 & 1081) & 1001, Earth Sciences 1000 & 1001, Chemistry 1000 & 1001, Physics 1050 & 1052 (or Physics 1200, 1201 & 2050).
- b) Earth Sciences 2030, 2031, 2310, 2400, 2502, 3161, 3170, 3172, 3400, 4160, 4171, 4173, 4179, 499A/B.
- c) Physics 2054, 2055, 2056, 3220, 3230, 3500, 3820, 3821; plus three other Physics courses at 3000 level or higher.
- d) One of Physics 3810 or Applied Mathematics/Pure Mathematics 3202.
- e) Mathematics 2000, 2001, 2050, and 3260.
- f) Other courses to complete at least a minimum requirement of forty five courses for the Honours Degree.

Any change in the programme of study must have the prior approval of the Heads of the two Departments concerned.

(Geology) Joint Honours), (i) in clause d), replace "Earth Sciences 2501" with "Earth Sciences 2502, 2503"; and (ii) delete all entries in "NOTE" after item d).

Page 167, under the heading Earth Sciences (Geology)/Chemistry Joint Honours, in clause b), replace "Earth Sciences 2501" with "Earth Sciences 2502".

41.18 *Department of Biochemistry

Page 166, 1992-93 Calendar, under the heading Joint Honours in Cell Biology/Microbiology and Biochemistry:

- delete clause a) and replace with the following:

"a) Two courses in first year English, Mathematics 1000 and 1001 (or Mathematics 1080, 1081 and 1001), Biology 1001 and 1002, Chemistry 1000 and 1001, Physics 1050 and 1052 (or Physics 1200, 1201 and 2050)."

- (At the request of the Chairman, Senate Committee on Undergraduate Studies, requested changes to Clause (b) and Clause (f) were deleted.)

Revised course description

311A and 311B. Human Physiology. (Same lectures as Medicine 310A and 310B. This course is taught and administered by the Faculty of Medicine.) Topics covered include the properties of nerves and muscle cells, the nervous system, the special senses, blood and body fluids, the cardiovascular system, the gastro-intestinal tract, respiration, renal function, endocrinology and reproduction. Integration of the body's systems in maintaining homeostasis will be emphasized.

Prerequisite or corequisite: Biochemistry 3100.

Lectures: Three hours per week.

Laboratory: To be specified.

Priority for entry into this course will be given to Biochemistry, Nutrition, Dietetics and other students who are interested in experimental science.

Note: Credit may be obtained for only one of Biochemistry 311A/B or Medicine 310A/B.

Page 170, under the heading Courses in Biochemistry, delete existing prerequisites and replace with the following:

"Chemistry 240A and 240B, and Physics 1200 and 1201 or equivalent."

41.19 *Bachelor of Science Regulations - Minor Programmes

Page 164, under the heading Regulations for the General Degree of Bachelor of Science,

(i) amend clause 1 to read:

"1. For the General Degree of Bachelor of Science a candidate will be required to complete, subject to the following Regulations, forty applicable courses which shall include:

- a) Two courses in English
- b) Two courses in Mathematics
- c) Two courses in each of two Sciences other than Mathematics"

(ii) add new clause 7 as follows:

"7. A candidate may complete a minor of eight courses in a subject area other than that of the Major chosen from Clause 2(c) above or from minors available in the Faculty of Arts. (It should be noted that because of departmental regulations for the Major, not every candidate may be able to fit a minor into his or her forty course programme).

a) The subject of the candidates minor shall be that declared by the candidate on the Change of Academic Programme Form which must then be signed by the Head of the Department of the Minor.

b) A candidate must follow the departmental regulations for the Minor as set forth in the appropriate section of the Calendar.

c) The Head of the Department of the Minor will advise the candidate on the selection of courses in the Minor.

d) Students who have taken courses appropriate to their Minor at another University are required to complete at least two courses in that subject at this University. These courses must be chosen in consultation with the Head of the Department of the Minor programme."

Page 110, delete the heading "Minor in Geography (B.A. Candidates)" and entire entry and replace with:

"Minor in Geography

Candidates minoring in Geography must complete eight courses as follows: 1000, 1001, 2001, 2102, 2195, 2302, and two further courses from Groups A, B, C, D, E or L."

Page 169, under the heading Programmes, in Biochemistry Section,

(i) add the following:

- "- Minor in Biochemistry
- Minor in Nutrition"

(ii) add the following new headings and programmes:

"Minor in Biochemistry

Candidates who take a minor in Biochemistry will complete Biochemistry 2020, 3100, 3102, one of 4210 or 4211, four of 3105, 4002, 4100, 4101, 4102, 4200, 4201.

Course prerequisites stipulated in the course descriptions shall apply to a minor in Biochemistry.

Minor in Nutrition

Candidates who take a minor in Nutrition will complete Biochemistry 3100, 3102, 311A, 311B, 3200, 3201 and two of Biochemistry 4300, 4301, 4302.

Course prerequisites stipulated in the course descriptions shall apply to a minor in Nutrition."

Page 172, under the heading Biology, subheading Programmes in Biology, add the following:

"- Minor in Biology"

Page 172, after the heading Programmes in Biology, and before the heading General Degree - Major in Biology, add the following new section:

"Minor in Biology

A minor in Biology will consist of eight Biology courses: 1001 and 1002 (or equivalent), any three of 2010, 2122, 2210, 2600 and any three other Biology courses except 2040, 2041 and 2120. The choice of courses must be made in consultation with the Head of Biology or delegate."

In the note Biology 2041, insert the word "Minor," before the word "Major".

In the note Biology 2120, insert the phrase "or Minors" after the word "Majors".

Page 181, under the heading Earth Sciences, subheading Programmes in Earth Sciences, add the following new programme:

"- Minor in Earth Sciences"

Page 181, after the entry for Programmes in Earth Sciences, add the following new heading and section:

"Minor in Earth Sciences

A Minor in Earth Sciences will consist of the following courses:

a) Earth Sciences 1000, 1001, 2030, 2031, 2310.

b) Three of Earth Sciences 2400, 2502, 2503, 3053, 3400, 3600, 3701, 3811, 3161, 3170, 3172, 4610.

Several of the courses numbered 3000 or higher have Earth Sciences 2400 and/or 2503 as prerequisites."

Page 185, under the heading Programmes in Mathematics and Statistics, delete "(B.A. only)" from both clauses g) and h).

Page 187, in the heading Minor in Mathematics (B.A. only), delete the phrase "(B.A. only)".

Page 187, in the heading Minor in Statistics (B.A. only), delete the phrase "(B.A. only)" and amend clause a) to read:

"a) Mathematics 1000, 1001; Statistics 2500 or Statistics 2510; Statistics 2501 or Statistics 2511."

Page 191, under the heading Programmes in Physics, add new programme:

"- Minor in Physics"

Page 191, after the heading Programmes in Physics and before the heading Major in Physics, add the following new heading and section:

"Minor in Physics

A minor in Physics will consist of eight Physics courses to include Physics 1050, 1052 (or 1200, 1201, 2050); 2053, 2054, 2055, 2056."

Page 194, under the heading Programmes in Psychology, add new programme:

"- Minor in Psychology"

Page 196, in the heading Requirements for a Minor (B.A. only), delete the phrase "(B.A. only)".

In the Chemistry section, under the heading Programmes in Chemistry, insert:

"- Minor in Chemistry"

Add new entry as follows:

"Minor in Chemistry

Candidates who take a minor in Chemistry will complete Chemistry 1000, 1001, 240A/B, 2210, 2300 and two courses chosen from 3100, 3211, 3300, 3301, 3400, 3401 and 3500.

Page 86, 1992-93 Calendar, under the heading Regulations for the General Degree of Bachelor of Arts, clause 5, add a new clause i) to read as follows:

"i) Minor programmes are available in the Faculty of Science. These programmes are governed by regulations which are detailed under the Faculty of Science Calendar entries for each department."

41.21 *Department of Biology

Revised course description

4245. Biophysics. An examination of the physical properties involved in defining diffusion, membrane properties, electrochemical potentials and the processes of bioenergetics within cells and organelles. Selected topics in biomechanics and the functioning of whole organisms with respect to size, shape, support, orientation, transport and motility.

41.22 *Department of Psychology

Add "Prerequisites: Psychology 1000 and 1001" to the descriptions of the following courses: 2010, 2011, 2012, 2100, 2120, 2240, 2440, 2540, 2560, 2610, 2800, 2810, 3350, 3430.

Revised prerequisites

Psychology 2530, Prerequisites: Psychology 1000 and 1001; Mathematics 1000 (or 1080 and 1081), or Mathematics 1050 and 1051, or Mathematics 1080 and 1050.

Psychology 2900, Prerequisites: Psychology 1000 and 1001; Mathematics 1000 (or 1080 and 1081), or Mathematics 1050 and 1051, or Mathematics 1080 and 1050.

Psychology 3400, Prerequisites: Psychology 1000 and 1001; a course in either Psychology, Linguistics or Anthropology at the 2000-level.

41.23 *Drama and Music

Page 96, 1992-93 Calendar, under the heading Drama and Music, amend clause 2.b)i) to read: "i) 1002 and 1003, or 1020 and 1021, or 2000 and 2001."

Page 141, under the heading Interdisciplinary Major Programme in Drama and Music Under the B.A. Degree, amend paragraph to read:

"Students must successfully complete at least eight courses in music as follows:

Music 1002/1003 OR Music 1020/21 OR 2000/2001; Music 110A/B; Music 210A/B; Music 2005; Music 3501."

41.24 *School of Music

Page 60, 1992-93 Calendar, under the heading C. Guidelines Governing Year of Degree and Departmental Regulations Which a Student Will Follow, (i) clause C.4.a), add "the School of Music," between "the School of Physical Education and Athletics," and "or the School of Social Work," in the first sentence.

(ii) add the following sentence to clause C.4.b):

"A student in the School of Music who is required to withdraw from the Bachelor of Music degree programme for academic reasons, or who is deemed to have withdrawn under Regulation 2 of the School of Music Admission Requirements and Academic Standards, will normally follow regulations in effect at the time the student is readmitted to the School."

Page 141, under the heading Concentration in Music Under Clause 2(F) of the Regulations for the Bachelor of Education Degree, amend first paragraph to read:

"Students pursuing a concentration in music under the regulations for the degree of Bachelor of Music (Primary/Elementary) must complete eight courses as follows: Music 1020 or 2000, 1021 or 2001, 110A/B, and 251A/B, and Education 3130 or 3160, and 3180."

Page 206, under the heading Regulations for the Degree of Bachelor of Education (Primary), subheading Music, amend the first line to read: (This document was amended by deleting "1021" and inserting "1020"). The calendar entry reads:

"- 1020 or 2000, 1021 or 2001"

41.25 *School of Physical Education and Athletics

Page 237, under the heading Evaluation and Promotion, amend clause 1 to read:

"The Academic Council of the School constitutes the examining body for all physical education evaluations. The standing of every student will be assessed at the end of each academic term and at the end of each work term by the Undergraduate Studies Committee which will then make its recommendations to Academic Council. The decisions of the Academic Council will be issued to individual students by the Registrar."

41.26 *School of Pharmacy

New courses

Pharmacy 401W (F). Non-credit course. Seminars in

Pharmaceutical Sciences. Presentations by faculty and visiting scientists on topics of current importance. The final grade, Pass or Fail, will be based on attendance and participation.

NOTE: This course is a necessary prerequisite for Pharmacy 402W (W).

Pharmacy 402W (W). Non-credit course. Seminars in Pharmaceutical Sciences. Presentations by faculty and visiting scientists on topics of current importance. The final grade, Pass or Fail, will be based on attendance and participation.

NOTE: This course is a necessary prerequisite for Pharmacy 501W (F).

Pharmacy 501W (F). Non-credit course. Seminars in Pharmaceutical Sciences. Presentations by faculty and visiting scientists on topics of current importance. The final grade, Pass or Fail, will be based on attendance and participation.

Delete Pharmacy 4010, 4011 and 5010

41.27 *Bachelor of Fine Arts (Visual Arts)

Page 147, 1992-93 Calendar, under the heading Academic Performance, amend as follows:

2. a) Students who fail a course in a studio discipline shall not take more advanced courses in that discipline until the failed course has been satisfactorily completed.

b) Students who fail any studio course will be required to repeat that course and obtain a grade of at least 65B.

5. A candidate will be required to withdraw from the programme if:

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

OR

b) The candidate's average in Visual Arts courses falls below 65% in each of two consecutive semesters of enrolment in the programme.

41.28 *General Admission Requirements - Clause B1.I.(c)

Page 56, 1992-93 Calendar, amend the second sentence in clauses B.1.i.c) and B.1.i.d) to read:

"Applicants submitting a TOEFL score of 550 (or higher) will be considered as having demonstrated English language proficiency for admission purposes only. (For information on placement in introductory English courses see f) and g) below.)"

41.29 *General Regulations (Undergraduate)

Page 63, 1992-93 Calendar, delete Regulation Q. Attendance and Neglect of Studies in its entirety.

Page 75, under the heading Academic Regulations Governing First-Year Courses and Information For New First-Year Students, delete Regulation 7.

Page 61, under the heading F. Regulations For A Second Degree, (i) add the following note immediately following the heading:

"Note: Students who have already received a bachelor's degree may undertake a second bachelor's degree subject to the conditions outlined below. However, students are encouraged to consider proceeding to more advanced studies at the honours or graduate level."

(ii) add a new clause 5 as follows:

"5. A student will not be awarded the same bachelor's degree more than once by this University (e.g. if a student has been awarded a Bachelor of Arts degree from this University he/she will not be awarded a second Memorial University Bachelor of Arts degree).

A student who has received a bachelor's degree from this University may complete the requirements for another major within that degree. Such a student will not be awarded the same degree again but a notation indicating the completion of the second major requirements will be included on the student's academic record."

Page 59, under the heading General Academic Regulations (Undergraduates), (i) delete Notes 1) and 2) and change existing Note 3 to "Note"; (ii) reletter existing sections B through W as D through Y respectively; and (iii) add new Regulations B and C as follows:

"B. Provision for Waiver of Regulations

The academic regulations notwithstanding, the University reserves the right, in special circumstances, to modify, alter or waive any regulation in its application to individual students where, in the judgement of the appropriate University Officer or Committee, merit and equity so warrant. Such requests for waivers should be directed in the first instance as follows:

i) Course prerequisites/corequisites may, in special circumstances and upon individual request, be waived by the Head of the Academic Unit, or delegate of the course(s) in question, as appropriate.

ii) Departmental Regulations may, in special circumstances

and upon individual request, be waived by the College/Faculty/School Committee on Undergraduate Studies or equivalent upon the recommendation of the Head of the Academic Unit.

iii) Faculty or School regulations may, in special circumstances and upon individual request, be waived by the College/Faculty/School Committee on Undergraduate Studies or equivalent. Such waivers shall not reduce the total number of courses required for a minor, major, certificate, diploma or degree programme.

iv) General University Regulations may, in special circumstances and upon individual request, be waived by the Senate Committee on Undergraduate Studies on the recommendation of the appropriate College/Faculty/School Committee on Undergraduate Studies or equivalent. Such waivers shall not reduce the total number of courses required for a minor, major, certificate, diploma or degree programme.

C. Appeals Procedures

Any student whose request for waiver of regulations has been denied has the right to appeal. Any such appeal should be made in writing clearly stating the basis for the appeal and should be directed as follows:

i) in the case of prerequisites/corequisites, to the College/Faculty/School Committee on Undergraduate Studies or equivalent.

ii) in the case of departmental regulations, to the College/Faculty/School Undergraduate Studies Committee where the academic unit refuses to recommend the waiver, or to the Senate Committee on Undergraduate Studies where the College/Faculty/School denies the request for waiver.

iii) in the case of College/Faculty/School regulations, to the Senate Committee on Undergraduate Studies.

iv) in the case of General University Regulations, to the Executive Committee of Senate.

Students whose appeals are denied will be advised in the letter of denial of the next avenue of appeal that may be taken. Should a student's appeal be denied by the Senate, he/she will be advised that within the University no further appeal is possible. For assistance in the appeals process students are advised to consult with the Office of the Registrar."

Page 216, Education Degree Regulations section, delete the heading Provision for Waiver and entry and replace with:

"Waiver of Regulations of the Faculty of Education

Regulations involving course prerequisites or corequisites, departmental regulations, and faculty regulations may be waived where circumstances so warrant. The routing of requests for such waivers and the procedure for appealing unfavourable decisions are outlined in the General Academic Regulations (Undergraduate) B and C."

Page 332, Social Work Degree Regulations section, under the heading Programme of Study, delete clause 11 and renumber accordingly.

Page 333, under the heading Programme of Study, delete clause 10 and renumber accordingly.

Page 331, insert before the heading Regulations for the General Degree of Bachelor of Social Work, the following new section:

"Appeals for Waiver of Regulations

Students requesting a waiver of any of the following regulations are referred to the General Academic Regulations (Undergraduate) section of this Calendar, page 59."

Page 89, Arts Degree Regulations section, under the heading Course Descriptions, delete Notes 1) and 2).

Page 89, insert before the heading Course Descriptions, the following:

"Waiver of Regulations for Undergraduate Students

Regulations involving course prerequisites or corequisites, departmental regulations, and faculty regulations may be waived where circumstances so warrant. The routing of requests for such waivers and the procedure for appealing unfavourable decisions are outlined in the General Academic Regulations B and C."

41.30 Student Appeal - MUN NO. 8027450

At the Senate meeting held on December 8, 1992 a decision on this student's appeal, to be awarded a Bachelor of Science degree twice from Memorial, was deferred pending the outcome of a review being conducted by the Senate Committee on Undergraduate Studies concerning the University's current practice on this issue.

In a memorandum dated January 25, 1993 the Senate Committee recommended that Memorial should not award the same degree twice. Appropriate calendar regulations recommended by the Committee, as recorded above, were approved.

It was moved by Dr. Wilkshire, seconded by Dr. Crim and carried that the student's appeal be DENIED. The Secretary of Senate indicated that a notation indicating the

completion of the second major requirements has been included on the student's academic record.

*Report of the Academic Council of the School of Graduate Studies

41.31 Candidates for Degrees (Graduate), Spring Convocation 1993

Dean Malpas presented lists of candidates for graduate degrees for the Spring Convocation 1993, certified that each candidate had fulfilled all academic requirements for the degree indicated and recommended that they be admitted thereto. It was moved by Dean Malpas, seconded by Mr. Collins and carried that the lists of candidates be approved as follows: (It was agreed to amend the word "Preceptions", on page 3 of the document, to read "Perceptions".

DOCTOR OF PHILOSOPHY
MASTER OF SCIENCE
MASTER OF ENGINEERING
MASTER OF EDUCATION

It was agreed that the following graduate calendar changes be approved or received for information as appropriate:

41.32 *Regulations Governing the Degree of Master of Engineering and Applied Science

Page 370, 1992-93 Calendar, under the heading Regulations Governing the Degree of Master of Engineering and Applied Science, subheading E. Thesis, (i) delete clause 5; and (ii) amend clause 3 to read: "3. Three copies of the thesis shall ..."

41.33 *General Regulations (Graduate)

Page 344, under the heading General Regulations, subheading D. Courses and Programmes, clause 10, delete current entry and replace with:

"The Animal Care Unit offers a seminar in animal care at least once annually. The seminar is administered by the School of Graduate Studies. All graduate students whose degree requirements involve experimentation on living vertebrate animals are required to attend this seminar normally at the first offering following commencement of their programme."

41.34 *Department of English Language and Literature

Page 353, under the heading Courses, delete "642A&B English Dialectology" and replace with "6420 English Dialectology I" and "6421 English Dialectology II".

41.35 *Department of Linguistics

Page 358, under the heading Courses, delete "642A&B English Dialectology" and replace with "6420 English Dialectology I" and "6421 English Dialectology II".

41.36 Special Topics Courses

A list of Special Topics Courses approved for the Winter and Spring Semesters, 1993, was received for information.

41.37 *Master of Arts - Political Science

Page 359, delete the calendar entry for Master of Arts - Political Science and replace with:

"POLITICAL SCIENCE

Associate Professor and Head of the Department
G. Hartmann

The degree of Master of Arts is offered in Political Science by full-time and part-time study.

MASTER OF ARTS REQUIREMENTS

1. Students must normally complete a minimum of five regulation graduate courses; two of which will be: 6000, Political Analysis and 6800, Political Science Graduate Seminar. Further courses beyond the minimum number may be required, depending on the background and needs of the student.

2. Each student must also submit a thesis on an approved subject. Students must submit a thesis proposal to a departmental committee to have a thesis subject approved. This proposal must be submitted by no later than the term in which a student has registered for his or her fifth course.

3. Students will normally enrol in Political Science 6000 and Political Science 6800 during their first semester in the graduate programme, but these do not have to be the first courses taken.

COURSES

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

6000	Political Analysis I
6010	Political Analysis II
6100	Political Philosophy
6200	International Politics
6300	Comparative Politics
6350	Political Economy
6400	Political Development

6610 Newfoundland Politics
6700 Canadian Politics
6710 Intergovernmental Relations
6720 Local Politics
6740 Public Administration
6800 Political Science Graduate Seminar
6900-05 Special Topics"

New Courses

Political Science 5350 and 6800 are listed in the above entry.

41.38 *Master of Philosophy - Political Science

Pages 379-380, delete regulations governing the degree of Master of Philosophy - Political Science.

41.39 *Regulations Governing the Degree of Master of Philosophy and Specific Programme Regulations

Page 372, under the heading Regulations Governing the Degree of Master of Philosophy and Specific Programme Regulations, first paragraph, delete the words "Political Science,".

41.40 Report of the Senate Committee on Committees

The following appointment recommended by the Committee was confirmed:

Academic Planning Committee

Mr. Joseph Mazerolle (undergraduate student)

41.41 Senate Committee on Research

The Annual Report of the Senate Committee on Research (1991-92) was received for information.

41.42 Committee on Senate Elections

A memorandum dated December 15, 1992, was received from the Chairman of the Committee, informing Senate that Dr. Gregory Kealey (Humanities) and Dr. Roger Gordon (Science) have been elected to the Senate to fill two additional seats which were made available with the naming of the Vice-President (Research) to Senate. The terms of office of both Senators expire on August 31, 1995.

Senate Elections 1993-94

The Committee on Senate Elections wishes to report the entitlement of each constituency to seats on Senate for the 1993-94 academic year in accordance with the Procedures for Selection of Senate Members. The entitlement of each constituency is as follows:

Business Administration	1	
Education	3	
Engineering & Applied Science	2	
Humanities	7	
Medicine	6	
Music	1	
Nursing	1	
Pharmacy	1	
Physical Education & Athletics	1	
Science	12*	
Social Sciences	3**	
Social Work	1	
Sir Wilfred Grenfell College	3	

Senate Elections for 1993-94 are now being conducted and the results will be submitted to Senate when they are finalized.

* Entitlement increased by one.

** Entitlement decreased by one.

Membership of the Committee on Committees

In accordance with Recommendation 1 of the Report of the Ad Hoc Committee to Review the Committee on Committees, the Committee on Senate Elections, at a meeting held on December 10, 1992 drew lots to determine the initial term of office for each of the nine constituencies. The results are as follows:

For a term of three years.

Sir Wilfred Grenfell College
 Education/Physical Education & Athletics
 Business Administration

For a term of two years

Humanities/Music
 Engineering and Applied Science
 Science

For a term of one year

Social Sciences/Social Work
 Medicine
 Nursing/Pharmacy

When Senate approved Recommendation 1 of the report of the ad hoc committee it was agreed at the Senate meeting to add the University Library as a tenth constituency. In this regard the Committee on Senate Elections determined by a draw that the initial term of office for the Library would be for a period of two years.

Elections for 1993-94 are now being conducted and the

results will be submitted to Senate when they are finalized.

- 41.43 *School of Physical Education and Athletics, Director's List, Fall Semester 1992

The names of students selected for the Director's List for the Fall Semester 1992, School of Physical Education and Athletics, were received for information.

- 41.44 Senate of Marine Institute

A copy of the minutes of the Marine Institute Senate meeting held on December 17, 1992, was received for information.

- 41.45 Student Appeals

The Secretary of the Executive Committee reported that the appeal of one undergraduate student (MUN NO. 8737918) was upheld. The appeals of nine undergraduate students (MUN NOS. 8131146, 8324006, 8820243, 8524662, 8616914, 9131970, 8856312, 9030131, 9158635) were denied.

42. Forestry Programme

A document concerning calendar changes for the Forestry Programme, circulated at tonight's meeting, was approved as follows:

Page 294, move the paragraph under the current "Pre-Forestry" entry to follow the first paragraph under "General Comments" and delete the heading "Pre-Forestry". Delete the "Pre-Architecture" entry. After the "Continuing Engineering Education" entry, include the following entry:

"FORESTRY PROGRAMME

The art and science of forestry offers professional foresters the opportunity to address and to solve some of the most important technical, economic, and social challenges of our time. Built on the recognition that forests

must be managed so as to meet our modern forestry aims at the sustainable management of our forests for society as a whole. Modern forestry not only addresses economic concerns but also concerns about forest ecosystem degradation, aquatic environment, wildlife habitat, recreational usage, spiritual values, and the global environment.

The integrated Memorial University of Newfoundland - University of New Brunswick Forestry Programme is composed of a basic core that focuses on the management of the forest resource, plus a number of electives to allow students to pursue personal interests. A broad range of areas is covered in the core including the basic sciences, the forest ecosystem, measurement and analyses, forestry as

a business, social aspects of forestry, and the design of management intervention. A graduate of the BScF programme is an integrated resource manager."

Page 308, delete "Department of Forestry".

Page 308, replace the entry beginning with the "Pre-Forestry Programme" with the following:

"FORESTRY PROGRAMME

GENERAL COMMENTS

The Forestry curriculum at Memorial University is governed by a Memorandum of Understanding (MOU) between the University of New Brunswick and the Memorial University of Newfoundland.

Under the terms of the MOU the courses listed below are equivalent to the courses offered in the first two years of the Bachelor of Science in Forestry (BScF) programme at the University of New Brunswick.

The BScF degree takes a minimum of twelve academic terms (including General Studies) to complete if commenced at Memorial University and concluded at the University of New Brunswick. When a student completes at Memorial University all the courses listed below, including at least two appropriate electives, he/she can transfer to the University of New Brunswick and gains automatic admission to Term 5 in the third year of the BScF Programme in the University of New Brunswick Faculty of Forestry.

It is possible to transfer before completing all the courses in the Forestry Programme at Memorial University. However, in this case the MOU does not apply and the level at which the student can enter the University of New Brunswick programme depends on the courses the student has completed at Memorial. A student transferring to the University of New Brunswick before completing all the courses in the Memorial University programme may have completed courses in a sequence differing from that followed at the University of New Brunswick and therefore may not be able to proceed at the level expected until course deficiencies have been made up.

A student wishing to transfer before completing the programme offered at Memorial University should contact the Assistant Dean, Faculty of Forestry, University of New Brunswick, Fredericton, N.B. E3B 6C2.

There are a total of ten electives in the five years of the BScF degree programme at the University of New Brunswick of which six will normally be from the Sciences (e.g. Biology, Mathematics) and Social Sciences (e.g. Sociology, Psychology) and four from the Humanities (e.g. English, History). A student who has taken more than two

appropriate electives at Memorial University can expect to be given credit at the University of New Brunswick for additional electives where elective choices are available in the remaining portion of the BScF programme at the University of New Brunswick. This is an advantage as it gives the student more time to concentrate on required, higher-level courses in the BScF programme.

The BScF degree can include a Wildlife Management specialization involving a coherent stream of wildlife management courses in addition to the basic core of courses that focuses on forest resource management. Additional required courses in the Wildlife Management specialization take the place of the electives.

PROGRAMME OF STUDY FOR THE FORESTRY PROGRAMME AT MEMORIAL

Courses which should be completed prior to registering for a Forestry course

Biology 1001	Principles of Biology
Biology 1002	Principles of Biology
Chemistry 1000	Introductory General Chemistry
Chemistry 1001	Introductory General Chemistry
Mathematics 1000	Calculus I

Four electives*

Note: If Mathematics 1000 is not taken, students can take Mathematics 1080 followed by Mathematics 1081.

* Two of these courses complete the elective requirement prior to transfer to the BScF programme at the University of New Brunswick. If High School Physics 3204 has not been completed by the student he/she must take Physics 1200 at Memorial University in place of an elective. Physics 1201 is also highly recommended. While the University of New Brunswick does not require English to complete a degree it is strongly recommended as an elective. Also, the University of New Brunswick does not give elective credit for certain Memorial University courses e.g. Religious Studies, Applied Music.

Within the limitations of the course availability and timetabling, and provided prerequisite courses are taken in proper sequence, a student may progress through the programme at Memorial University at a rate which best suits the student's qualifications and previous academic achievements.

The following courses are listed in blocks corresponding as close as possible to the years at which equivalent courses are offered at the University of New Brunswick. However the semesters in which these courses are offered at Memorial University is determined by the departments concerned to suit most of the students enrolled and the resources available.

Students should consult the Forestry Program Co-ordinator for guidance before each Fall registration, and at other times when course choices are made.

Forestry 2040	Forest Measurements
Forestry 2050	Forest Dynamics
Forestry 209W	Forestry Field Practice
Forestry 2220	Forest Meteorology
Forestry 2320	Terrain Analysis
Biology 4210	Remote Sensing (or Engineering 8623)
Computer Science 2602	Computing Programming Basic & Fortran (or Engineering 2420)
Earth Sciences 1000	Planet Earth
Earth Sciences 1001	Planet Earth
Mathematics 2050	Linear Algebra I

Note: A student considering early transfer to the University of New Brunswick should be aware that completion of the fifteen Memorial University courses listed above for the first and subsequent years (plus at least two electives) is equivalent to the completion of the first year at the University of New Brunswick with advanced credit for any additional electives which can be applied to the second and third years at the University of New Brunswick. If a student is unable to schedule COMP 2602 and/or Forestry 209W and transfers to the University of New Brunswick, the equivalents of these courses can be taken at the University of New Brunswick as a fall camp (prior to the fall semester) and a spring camp (after the winter semester), respectively.

Forestry 2200	Biostatistical Analysis
Forestry 2401	Dendrology and Silvics
Forestry 2410	Tree Development and Structure
Forestry 3500	Introduction to Soil Science
Forestry 3510	Forest Soils
Forestry 3800	Wood Technology
Business 2000	Business Communications***
Economics 2010	Introduction to Microeconomics I
Mathematics 2510	Statistics for Science Students I (or Engineering 2421)

*** A minimum grade of C is required.

Completion at Memorial University of all the twenty four courses listed above (plus at least two appropriate electives) is equivalent to the completion of the first and second years at the University of New Brunswick. Students should contact the Assistant Dean, Faculty of Forestry, University of New Brunswick, Fredericton, N.B., E3B 6C2 for details about this camp.

WILDLIFE MANAGEMENT SPECIALIZATION

A student considering the Wildlife Management specialization, should complete the following Memorial University course before entering third year at the University of New Brunswick:

Biology 2210 Biology of Vertebrates

This course is equivalent to a required core Wildlife Management course at the University of New Brunswick. Students are advised that there are a limited number of places in this course and that registration priority is determined by grade-point average.

Revised course descriptions

Forestry 2040, Forest Measurements, add: "Three hours of lecture and three hours of laboratory per week."

Forestry 2050, Forestry Dynamics, (i) change: "Forestry Dynamics" to "Forest Dynamics"; and (ii) add: "Three hours of lecture and three hours of laboratory per week.
Prerequisite: Forestry 2040."

Forestry 209W, Forestry Field Practice, change present description to "The course involves lecture and field trip sessions to introduce students to forestry practices, operations, and concerns. This is a non-credit compulsory course.
Three hours of lecture and/or field trip per week."

Forestry 2200, Bio-Statistical Analysis, add: "Three hours of lecture per week."

Forestry 2220, Forestry Meteorology I, (i) change: "Forestry Meteorology I" to "Forest Meteorology"; and add: "Three hours of lecture and three hours of laboratory per week."

Forestry 2320, Introduction to Terrain Analysis, (i) delete last sentence of description "This is a ... seminars."; and (ii) add: "Three hours of lecture/laboratory per week.
Prerequisite: Earth Sciences 1000."

Forestry 2401, Dendrology and Silvics, add: "Three hours of lecture and three hours of laboratory per week.
Prerequisite: Biology 1001, 1002 or permission of instructor."

Forestry 2410, Tree Development and Structure, (i) delete "and relevant laboratory exercises"; and (ii) add: "Three hours of lecture and three hours of laboratory per week.
Prerequisite: Biology 1001, 1002 and Forestry 2401 or permission of instructor."

Forestry 3500, Introduction to Soil Science, (i) delete "and relevant laboratory exercises"; and (ii) add "Three

hours of lectures and three hours of laboratory per week. Prerequisite: Chemistry 1000, 1001 and Earth Sciences 1000, 1001 or permission of instructor."

Forestry 3510, Forest Soils, (i) delete "and relevant exercises"; and (ii) add: "Three hours of lecture and three hours of laboratory per week."

Forestry 3800, Wood Technology, (i) delete "and relevant exercises"; and (ii) add "Three hours of lecture and three hours of laboratory per week. Prerequisite: Forestry 2401 or permission of instructor. Prerequisite or co-requisite: Forestry 2410 or permission of instructor."

Other Business

43. Following the conclusion of the regular items of business Dr. May took the opportunity to thank senators for the resolution which was passed unanimously on January 12, 1993 when Senate expressed its support to the President and the Board of Regents in an effort to help resolve the current controversy over changes to the provincial auditor general's legislation. The President reported that a meeting to discuss amendments to the legislation had taken place between senior officials of the University and the Government. The University is waiting to hear back from the Government in this regard.

Dr. May also spoke briefly about the University's current budget and the uncertainty associated with planning next year's budget in the context of the provincial financial situation.

44. ADJOURNMENT

The meeting adjourned at 8:40 p.m.