

SENATE MINUTES

FEBRUARY 10, 1998

The regular meeting of Senate was held on Tuesday, February 10, 1998, at 4:00 p.m. in Room E5004.

60. PRESENT

The President, Dr. J. Tuinman, Dr. K. Keough, Dean W. Blake, Mr. G. Collins, Acting Dean W. Davidson, Dr. L. Bella (for Professor J. Dempster), Professor A. Fowler, Dr. C. Higgs, Mr. R. Ellis, Dean G. Kealey, Dr. C. Loomis, Professor S. Solberg (for the Director of Nursing), Dean W. Ludlow, Dean T. Murphy, Mr. L. O'Reilly, Dean T. Piper, Dr. J. Quaicoe (for Dean S. Seshadri), Dr. M. Volk, Professor H. Weir, Dr. S. Abhyankar, Dr. A. Aboulazm, Dr. R. Adamec, Dr. G. Bassler, Dr. J. Bear, Mr. E. Brown, Dr. G. Clark, Dr. D. Craig, Dr. S. Ghazala, Professor K. Hestekin, Dr. H. Hulan, Professor V. Kuester, Dr. R. Lucas, Dr. V. Maxwell, Dr. I. Mazurkewich, Dr. M. Mulligan, Dr. D. McKay, Captain W. Norman, Dr. R. Payne, Dr. N. Rich, Dr. G. Sabin, Dr. S. Saha, Dr. D. Thompson, Dr. D. Treslan, Dr. D. Tulett, Dr. R. Venkatesan, Dr. K. Vidyasankar, Dr. A. Whittick, Dr. P. Wilson, Dr. S. Wolinetz, Ms. N. Peckford, Mr. J. Craig, Mr. K. Smedbol, Mr. K. Clarke, Ms. P. McCormick, Mr. D. Newton, Mr. J. Parsons, Ms. V. Taylor.

A number of observers were also in attendance.

61. APOLOGIES FOR ABSENCE

Dr. J. Crosbie, Dean I. Bowmer, Dean R. Seshadri, Dr. G. Burford, Dr. V. Richardson, Dr. R. Rivkin, Dr. G. Shorrocks, Professor D. Walsh, Dr. C. Wood.

62. MINUTES

The Minutes of the regular meeting held on January 13, 1998 were taken as read and confirmed.

63. REPORT OF THE EXECUTIVE COMMITTEE ON SENATE

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 Undergraduate Studies

63.1 Department of Sociology and the Sociology/Anthropology Interdepartmental Studies Programme

Page 167, 1997–98 Calendar, following the heading Sociology insert new entries as follows:

"PROGRAMMES IN SOCIOLOGY

The following undergraduate programmes are available in the Department:

- Major or Honours in Sociology
- Joint Honours in Sociology and Another Major Subject
- Major or Honours in Sociology/Anthropology
- Minor in Sociology
- Minor in Sociology/Anthropology

ADMISSION TO MAJOR AND MINOR PROGRAMMES

Admission to the Major and Minor programmes in Sociology is competitive and selective and based on academic standing. Students who wish to enter these programmes must submit a "Declaration/Change of Academic Programme" form to the Department of Sociology.

To be eligible to declare a Major or Minor in Sociology or Sociology/Anthropology, all applicants must have completed a minimum of 30 credit hours in courses which will include the following:

- 21 credit hours in courses other than Sociology (at the 1000 and 2000–levels), with a minimum overall average of 60%, and
- Sociology 1000 or 2000 or any 2000–level course in Sociology, with a minimum grade of B65

ADMISSION TO HONOURS PROGRAMME

Admission to the Honours programme in the Department of Sociology is competitive and selective. Students who wish to enter this programme must submit an "Application for Admission to Honours Programme" form to the department no later than September 30 in the academic year in which they wish to complete the Honours programme.

To be accepted into the Honours programme, a student must not only meet the criteria laid out in the Regulations for the Honours Degree of Bachelor of Arts, but must normally have obtained a cumulative average of at least 75% in 18 credit hours in courses in Sociology which must include Sociology 3040 and 3150."

Delete the heading General and sub-heading First Course and replace with the following:

"GENERAL INFORMATION AND PREREQUISITES"

Following the heading Major, sub-heading Major Options delete Clause a) and replace with the following:

"a) Sociology Option: Students wishing to Major in Sociology must complete Sociology 1000 or 2000, Sociology 3040, Sociology 3150, and at least six credit hours in Sociology courses at the 4000-level, of which three credit hours may be completed in a cross-listed S/A course. No more than an additional six credit hours in courses below the 3000-level may be counted toward the Major. The remaining courses, for the minimum of 36 credit hours required for the Major, may be selected from any Sociology and S/A offerings at the 3000 and 4000 levels.

Delete the paragraph "These regulations apply to all students who became Majors on or after September 1, 1980."

Delete Clause b) and replace with the following:

"b) Interdisciplinary (S/A) Option: Students wishing to Major in this option must complete at least 24 credit hours in S/A courses, plus a minimum of 12 credit hours in courses selected from offerings in Sociology, Anthropology, or S/A. Specific requirements are detailed

under the Sociology/Anthropology Interdepartmental Studies Programme. See page 169."

Following the heading Honours, delete Clause a).

Delete "b)" and amend the paragraph to read as follows:

"Honours students are required to complete at least 60 credit hours in courses in Sociology and S/A, including all courses prescribed for the Major in Sociology, and either Sociology 4995 or 4996, and must meet the requirements outlined in the Regulations for the Honours Degree of Bachelor of Arts."

Page 170, insert new section immediately before the section titled S/A Major Programme, to read as follows:

"ADMISSION TO MAJOR AND MINOR PROGRAMMES

Students who wish to enter these programmes must submit a "Declaration/Change of Academic Programme" form to the Programme Coordinator.

To be eligible to declare a Major or Minor in Sociology/Anthropology, all applicants must have completed a minimum of 30 credit hours in courses which will include the following:

-21 credit hours in courses other than Sociology/Anthropology (at the 1000 and 2000-levels), with a minimum overall average of 60%, and

-a 2000-level course in Sociology/Anthropology, with a minimum grade of B65."

63.2 Department of Anthropology

Page 122, 1997-98 Calendar, following the heading Course List, delete the course number for S/C 3281 and replace with S/C 2414. Add the following note after the course description:

"NOTE: Credit may not be obtained for S/C 2414 and the former S/C 3281."

63.3 Department of Linguistics

Page 155, 1997–98 Calendar, following the heading Course Descriptions, delete the current course titles for Linguistics 2020, 2021, 2030, 2031, 2040, 2041, and replace with the following:

2020. Introduction to Inuttut I.
2021. Introduction to Inuttut II.
2030. Introduction to Innu–aimun (Montagnais/Naskapi) I
2031. Introduction to Innu–aimun (Montagnais/Naskapi) II
2040. Introduction to Mi'kmaq I
2041. Introduction to Mi'kmaq II

Delete the current course titles for Linguistics 4010 and 4011, 4020 and 4021, 4030 and 4031, 4040 and 4041, and replace with the following:

4010 and 4011. Linguistic Structure of Cree I & II

4020 and 4021. Linguistic Structure of Inuttut I & II

4030 and 4031. Linguistic Structure of Innu–aimun (Montagnais/Naskapi) I & II

4040 and 4041. Linguistic Structure of Mi'kmaq I & II

Amend the course descriptions for Linguistics 2020, 2030 and 2040 to read as follows:

"An introduction to the phonology and grammar of the language."

Change the course number of Linguistics 2150 to 3155.

Page 154, following the heading General Degree, Clause 1), add new item p) as follows:

"p) Linguistics 2150, 3155"

Following the sub–heading 2) Minors for Potential Speech Language Pathologists, amend the second paragraph to read as follows:

"Required courses are Linguistics 1100/2100, 2103, 2104, 2210, 3104, 3155, 4700 plus three credit hours chosen from..."

Following the sub-heading 3) Minors for Potential Teachers of Language, a) Linguistics for French Majors amend the first paragraph to read as follows:

"12 credit hours in courses chosen from the following:
Linguistics/French 3310, 3311, 4310: Linguistics 2500, 3000, 3100, 3104, 3150, 3155, 3201, 3500, 3850, 4350."

Amend the paragraph following the sub-heading 4) Concentration in Linguistics for B.Ed. Students to read as follows:

"A minimum of 18 credit hours in Linguistics...six credit hours in courses chosen from Linguistics 2500, 3000, 3100, 3104, 3150, 3155, 3201, 3212, 3850..."

Amend the prerequisite for Linguistics 3150 to read as follows:

"Linguistics 3155, or permission of the instructors."

Amend the prerequisite for Linguistics 4150 to read as follows:

"Linguistics 3155. Linguistics 2104 is also recommended."

Following the heading Minor Programmes, delete the paragraph following the sub-heading 1) General Minor and replace with the following:

"Courses eligible for the General Minor in Linguistics are Linguistics 1100/2100, 1101, 2103, 2104, 2210, 2500, 3000, 3100, 3104, 3150, 3155, 3201, 3212 or 3220, 3500, 3850, 4001, 4110, 4150, 4151, 4201, 4210, 4310, 4350, 4400, 4500, 4700, 4850. Students are required to complete 24 credit hours chosen from these courses, and must include 2103, 2104, and at least six credit hours from 3000, 3100, 3104, 3201, 3500, 3850."

Following the heading 3) Minors for Potential Teachers of Language, delete Clause c) and replace with the following:

"Linguistics 2060, three credit hours in a course on the structure of a Native Language of Canada (available in the series 2020–2041 or in the series Linguistics 4010–4051), plus six credit hours in courses chosen from the following: Linguistics 3000, 3100, 3104, 3150, 3155, 3201, 3500, 3850, 4150."

Delete the current entry for Clause 3)b) English Linguistics and replace with the following:

"b) English Linguistics: Linguistics/English 2400 and Linguistics 2500 are required, plus six credit hours in courses chosen from the following: Linguistics/English 2401, Linguistics 3000, 3100, 3104, 3201, 3212, 3500, 3850, 4001, 4110, 4210, Linguistics/English 4403, 4420, 4421."

63.4 Department of Psychology

Page 227, 1997–98 Calendar, following the heading Course Descriptions, amend the credit restriction NOTE following the course description for Psychology 3640 to read as follows:

"NOTE: Credit may not be obtained for both Psychology 3640 and either of

the following: Psychology 3650 and the former Psychology 3600."

(This Calendar Change also approved by the Faculty Council of Science.)

63.5 Aboriginal Studies Minor Programme

Page 121, 1997–98 Calendar, immediately following the heading Course Descriptions, and before the section Anthropology, insert the following new programme:

ABORIGINAL STUDIES

Programme Co-ordinator: Dr. Marguerite MacKenzie, Department of Linguistics

The Minor in Aboriginal Studies is a multi-disciplinary programme offered to candidates for the degree of Bachelor of Arts. The Minor

programme is an alternative to a Minor offered by a single department and satisfies the degree requirement for a Minor.

REGULATIONS

Students who minor in Aboriginal Studies shall complete a minimum of 24 credit hours including ANTH 2xxx plus at least one course in three of the other participating disciplines: English, History, Linguistics, and Social Work for a total of 9 credit hours. The remaining 12 credit hours can be chosen from any of the courses in the programme.

Course List

Anthropology

S/C 2414. Regional Studies: North American Indians and Inuit.
A/P 3290. Newfoundland and Labrador Prehistory.
A/P 3291. Maritime Provinces Prehistory.
A/P 3510. Prehistory of the New World.

History/Anthropology

A/P 3515. Prehistory of Mesoamerica.
A/P 3520. The Early Ethnohistory of North America's Native People.
A/P 3525. The Later Ethnohistory of North America's Native People.

Sociology/Anthropology

S/A 2220. Labrador Society and Culture.
S/A 3240. Regional Studies: Contemporary Native Peoples of Canada.

English

English 2160. North American Aboriginal Literature.

History

History 4222. North American Native Peoples in Historical Perspective.

Linguistics

Linguistics 2020. Introduction to Inuttut I.
Linguistics 2021. Introduction to Inuttut II.
Linguistics 2025. Introduction to Inuktitut I.
Linguistics 2026. Introduction to Inuktitut II.
Linguistics 2030. Introduction to Innu-aimun (Montagnais/Naskapi) I.
Linguistics 2031. Introduction to Innu-aimun (Montagnais/Naskapi) II.
Linguistics 2040. Introduction to Mi'kmaq I.
Linguistics 2041. Introduction to Mi'kmaq II.
Linguistics 2060. Aboriginal Languages of Eastern Canada.
Linguistics 4010 and 4011. Linguistic Structure of Cree I & II.
Linguistics 4020 and 4021. Linguistic Structure of Inuttut I & II.
Linguistics 4030 and 4031. Linguistic Structure of Innu-aimun (Montagnais/Naskapi) I & II.
Linguistics 4040 and 4041. Linguistic Structure of Mi'kmaq I & II.

Social Work

Social Work 3230. Cultural Camp.
Social Work 3511. Aboriginal People and Social Policy.
Social Work 3530. Aboriginal Social Development.
Social Work 5522. Women and Social Welfare.

63.6 Changes to Schedule A

Amend new Regulations for the Bachelor of Arts degree as approved by Senate on May 13, 1997, together with an additional minor amendment agreed to by the Dean of Arts following a question from Dr. Paul Wilson, as follows:

Delete section 5. Electives, in its entirety, and insert the following:

"5. Electives

In accordance with Regulations 2, 3 and 4 above, candidates must complete a minimum of 78 credit hours in courses offered by departments within the Faculty of Arts. Courses in Computer Science, Mathematics and Statistics, and Psychology may be applied to this requirement.

The remaining 42 credit hours (for a total of 120 credit hours required for the degree) will be electives; these may be chosen from offerings in Arts, Science, Business and Music (History and Theory only). Candidates may include as open electives up to 15 of these 42 credit hours in any subject area, with the exception of courses which are clearly practical or professional:

- * Outdoor Pursuits or Expeditions in Environmental Studies
- * Internships, Student Teaching or Practicum in Education
- * Activity courses in Coaching in Physical Education
- * Applied Music or Ensemble Techniques in Music

- * Nursing Practice or Clinical Practicum in Nursing
- * Clinical Clerkship in Pharmacy
- * Field Placement in Social Work
- * Master Classes in Fine Arts (Theatre)
- * Studio Courses in Fine Arts (Visual)"

63.7 Department of German and Russian

Page 149, 1997–98 University Calendar, following the heading Russian Language and Literature Major Programme, amend the paragraph to read as follows:

"A major in Russian consists of a minimum of 36 hours in Russian including Russian 2600, 2601, 2900, 2901..."

Following the heading Russian Language and Literature Minor Programme, amend the second paragraph to read as follows:

"Students should note that credit for courses 2600 and 2601 will not normally count towards a Minor in Russian Language and Literature."

63.8 Department of Religious Studies

Page 164, 1997–98 Calendar, following the heading Religious Studies, delete from "The Curriculum in Religious Studies is designed . . .") to the heading "Honours Degree", and replace with the following:

"RELIGIOUS STUDIES

1. Courses in Religious Studies are designed for students who wish to study religion as an academic discipline. They are open to all students on the same basis as are other courses in the Faculty of Arts. They are recommended for (a) students who wish to gain an understanding of the essential teachings and beliefs of one or more of the major religions; (b) students who are interested in careers for which a knowledge of religious thought and practice is useful; and (c) students who are interested in exploring this field as an area of scholarly interest and human concern.

2. Those who plan to teach religion in the schools should complete a major or minor under the degree of Bachelor of Arts or a concentration in Religious Studies under the degrees of Bachelor of Education (Primary) and Bachelor of Education (Elementary).

3. Religious Studies 1000, 1010, 1020, 1021, 1032, and 1035 are basic courses which introduce students to the academic study of religion. Religious Studies 1040 and 1041 (Introduction to Biblical Hebrew) and Religious Studies 1050 and 1051 (Introduction to Chinese) are courses which fulfil the language requirement in the Faculty of Arts.

4. Courses at the 2000 level are designed to introduce students to some of the major fields of study within the area of Religious Studies, e.g., World Religions (2011 and 2012); Christian Thought and History (2013, 2130, and 2140), Biblical Studies (2050 and 2051); Religion, Ethics, and Modern Culture (2610, 2810, and 2811). All courses at the 2000 level are introductory courses open to any student interested in the subject.

5. Courses at the 3000 and 4000 level in Religious Studies deal with the subject matter in greater depth and assume some previous knowledge.

6. Unless otherwise specified, Religious Studies courses do not have prerequisites. Students who register in a 3000- or 4000-level course are encouraged, however, to make sure that they have adequate preparation for that course, preferably by having completed a first- or second-year course in the field.

7. Students majoring in Religious Studies should plan their programme in consultation with a representative of the Department.

GENERAL DEGREE

Major in Religious Studies

A minimum of 36 credit hours in courses in Religious Studies is required. These must include a total of 18 credit hours in courses at the 3000 level or above, chosen from at least three of the following fields of study:

1. Biblical Studies: 3030, 3060, 3090, 3200, 3210, 3251, 3265, 3272, 3276, 4201–4230.
2. World Religions: 3305, 3310, 3315, 3340, 3400, 3410, 3421, 3422, 3430, 4300–4330.
3. Christian Thought and History: 3150, 3510, 3535, 3560, 3591, 3900, 3901, 3902, 3903, 4700–4730.
4. Religion, Ethics, and Modern Culture: 3500, 3640, 3650, 3670, 3680, 3810, 3811, 3820, 3830, 3840, 4801–4830.

Minor in Religious Studies

A minimum of 24 credit hours in courses in Religious Studies is required, including at least 9 credit hours in courses at the 3000 level or above.

Concentration in Religious Studies (B.Ed. Primary or Elementary)

A minimum of 18 credit hours is required, including:

- Religious Studies 2051
- At least one of 1020, 2013, 2130, or 2140
- At least 6 credit hours in courses at the 3000 level or above"

New Courses

1000. The Religions of the World. An introduction to the basic beliefs and practices of the world's great religions.

Note: Credit may not be obtained for both Religious Studies 1000 and the former Religious Studies 2010.

1021. The Millennium: The End Times in Thought, Action, and Imagination. This course will explore the many ways in which Judaism and Christianity have anticipated and imagined the end times. Attention will be given to Jewish and early Christian notions of the Messiah and his reign, the end of the world, and the impending judgment, as well as how Christianity has coped repeatedly with the delay of the end and how millennial thought and action have affected people during periods of social and natural crises. The role of millennial expectations in our modern era and why at the end of the twentieth century the millennium is once again a powerful image in religion, film, and literature will also be covered.

1032. Introduction to East Asian Religion and Culture. This is a broadly based survey course introducing students to the religions, cultures, and societies of China, Japan, and Korea. The formative role of religious traditions such as Confucianism and Buddhism will be traced through the history of each culture and the modern cultural setting.

1035. Creation Stories of the World. This course will explore the creation stories of a cross-section of the world's religious traditions against their own social, cultural, and historical contexts. Stories studied may be drawn from the Bible, the Ancient Near East, Hinduism, Buddhism, native North American traditions, and the modern scientific account of the universe's origins. The course will focus on the way each understands such concepts as divinity and humanity, space and time, community and individuality, good and evil.

1040. Introduction to Chinese (Mandarin) I. This course will introduce students to the basics of Chinese vocabulary, characters, and grammar. Mandarin Chinese, the official dialect of China, Taiwan, and Singapore, will be taught. This course is not intended for native speakers.

Note: Credit may not be obtained for both Religious Studies 1040 and the former Religious Studies 4904.

1041. Introduction to Chinese (Mandarin) II. A continuation of RS 1040. At the end of this course students should know over a hundred Chinese characters, which should enable them to read basic texts and carry on a simple conversation. This course is not intended for native speakers.

Prerequisite: RS 1040.

Note: Credit may not be obtained for both Religious Studies 1041 and the former Religious Studies 4911.

Renumber Religious Studies 4902–4911 as 4902–4910 excluding 4904.

Renumber and amend the course descriptions for Religious Studies 3700 and 3701 as follows:

1050. Introduction to Biblical Hebrew I. This course is designed to introduce students to the elements of Biblical Hebrew in order to prepare them for reading the Hebrew Bible/Old Testament in the original. The emphasis will be upon learning the basic grammar and syntax of Biblical Hebrew.

Note: Credit may not be obtained for both Religious Studies 1050 and either the former Religious Studies 3700 or the former Religious Studies 4900.

1051. Introduction to Biblical Hebrew II. A continuation of Religious Studies 1050. The emphasis will be upon the reading of selected Hebrew texts.

Prerequisite: Religious Studies 1050.

Note: Credit may not be obtained for both Religious Studies 1051 and either the former Religious Studies 3701 or the former Religious Studies 4901.

Delete the entry for Religious Studies 1031 in its entirety.

Delete the current course title and description for Religious Studies 2130 and replace with the following:

"2130. Religion from the Early Church to the Middle Ages. This course explores the historical development of the principal doctrines of Christianity from the period of the Early Church to the Middle Ages. Topics will include the doctrine of the Trinity, the doctrine of the Person of Christ, the nature of the Church, the doctrine of the sacraments, and early and medieval speculation on the nature of Heaven and Hell."

Delete the current course title and description for Religious Studies 2140 and replace with the following:

"2140. Religion from the Reformation to the Present. This course explores the radical religious, ethical, and intellectual changes and challenges that brought about the modern world we live in: the Reformation, the Enlightenment, the Romantic Period and Pietism, and Secularism."

Delete the entry for Religious Studies 3303 in its entirety.

New Courses

3305. The Religion of Ancient Israel. An exploration of the religious thought and institutions of the kingdoms of Israel and Judah in their cultural and historical contexts from their beginnings to the sixth century B.C.E. The course introduces students to the religious beliefs, practices, and institutions of these two kingdoms prior to their destruction and prior to the development of Judaism in the post-exilic period.

Note: Credit may not be obtained for both Religious Studies 3305 and the former Religious Studies 3050.

3310. Judaism at the Beginning of the Christian Era. This course will explore the developments in Jewish thought, institutions, beliefs, and practices during the time when Greek and Jewish cultures encountered one another and in which Jesus of Nazareth lived.

Note: Credit may not be obtained for both Religious Studies 3310 and the former Religious Studies 3220.

3315. The Development of Modern Judaism. Covering the period from the destruction of the Jerusalem Temple to the present, this course explores Judaism under the spiritual leadership of the rabbis. Approaching the material from a historical and cultural perspective, the course introduces students to the main developments of the Talmudic, Medieval, and Modern periods.

Note: Credit may not be obtained for both Religious Studies 3315 and either the former Religious Studies 3302 or the former Religious Studies 3303.

Delete the entries for Religious Studies 3220, 3240, 3260, 3271, 3275, 3520, 3530 and 3660 in their entirety.

New Courses:

3265. Ethics and the New Testament. An examination of the implications for ethics of the teaching of Jesus and the theology of Paul. Special attention will be given to the ethics of the Kingdom in Jesus' eschatological preaching and what Paul says about sex and marriage, women, slavery, homosexuality, and the State.

Note: Credit may not be obtained for both Religious Studies 3265 and the former Religious Studies 3260.

3272. Interpreting the Bible. This course examines ways in which the Bible has been interpreted from the beginnings of Christianity to the present. Particular emphasis will be placed on recent trends in historical and literary criticism.

Note: Credit may not be obtained for both Religious Studies 3272 and either the former Religious Studies 3271 or the former Religious Studies 4200.

3276. Contemporary Issues and the Bible. This course examines the relevance of the Bible to such issues as the environmental crisis, emergent global capitalism, and technology and freedom.

Note: Credit may not be obtained for both Religious Studies 3276 and the former Religious Studies 3275.

3535. Christianity in the Modern Era. A study of Western Christianity from the Enlightenment to the twentieth century through an examination of institutional and intellectual developments as well as changes in popular religious consciousness and practice.

Note: Credit may not be obtained for both Religious Studies 3535 and either the former Religious Studies 3530 or the former Religious Studies 3595.

Delete the current course description for Religious Studies 3650, and replace with the following:

"3650. Religion and Social Justice. A study of social justice issues that arise from an investigation of economic and political systems from the perspective of religious ethics. Topics addressed may include environmental ethics, ecofeminism, gender equity, pacifism, civil disobedience, poverty, and social welfare questions."

New Course

3680. Religion and the Problem of Evil. A study of religious approaches to the problem of evil. Attention will be paid to both traditional and contemporary efforts among the world's religions to address the problem.

Note: Credit may not be obtained for both Religious Studies 3680 and the former Religious Studies 4800

Renumber Religious Studies 4800–4830 as 4801–4830.

New Course

3811. Contemporary Alternative Spirituality. An in-depth examination of one or more forms of contemporary alternative spirituality. Students will study the writings of practitioners of alternative spirituality, as well as social-scientific studies of alternative spiritual groups. Religious movements to be explored include African-American alternative spirituality, Mother Earth and Creation spirituality, Neo-paganism, the New Age Movement, UFO spirituality, and contemporary witchcraft.

Delete the prerequisite note for the following courses:

Religious Studies 3030, 3060, 3090, 3150, 3200, 3210, 3251, 3340, 3400, 3410, 3421, 3422, 3430, 3510, 3560, 3591, 3640, 3650, 3670, 3810, 3820, 3830, and 3840.

63.9 Department of Philosophy

Renumber Philosophy 1001 as 1600.

Following the course description for Philosophy 1200, add the following:

"NOTES: 1. This course has no prerequisite.

2. Credit may not be obtained for both Philosophy 1600 and the former Philosophy 1001."

Change the course title of Philosophy 1200 and 2200 to "Introduction to Philosophy".

Following the heading Course List add the following paragraph:

"Some sections of Philosophy 1200, 1600, 2200, and 2800–2810 may qualify as Research/Writing courses for the B.A. Core requirements. Consult each semester's Registration Booklet for the R/W designation."

Page 159, 1997–98 Calendar following the heading Philosophy, sub-heading General, delete the current paragraph "Philosophy courses may be taken...the Social Sciences and Humanities." and replace with the following:

"Philosophy courses may be taken singly as general arts electives or as part of a Minor, Major, Honours or multidisciplinary programme. Normally, Philosophy 1200/2200 is a prerequisite for all philosophy courses at the 3000 level and above, though all courses are open to any student as electives with the permission of the Head of Department. Philosophy 1600 is not required for further courses in philosophy, but is of particular value to students interested in the Social Sciences and Humanities."

Following the sub-heading Minor Programme, delete Note 2) and replace with the following:

"Of the courses numbered 1001, 1003, 1600 and those numbered 2800–2810, not more than TWO may be counted towards the Minor."

63.10 Department of History

Page 151, 1997–98 Calendar, following the heading Course List delete History 1000, 1001, 2100 and 3670 in their entirety.

New Courses

1010. The North Atlantic in the Age of Expansion, 1492–1776. A thematic examination of European imperial expansion into the North Atlantic and the Americas, starting with the discoveries of Columbus and concluding with American Independence. This course qualifies as a research/writing course.

1011. Europe and the Wider World, 1750–1914. A thematic examination of the political, economic, social and cultural developments in Europe and the wider world from the French Revolution to World War I. This course qualifies as a research/writing course.

1012. The World in the Twentieth Century. This course will examine some of the major themes in world history since 1914. This course qualifies as a research/writing course.

1013. Issues in Canadian History. This course will examine the historical context for various contemporary problems being experienced by Canadians. This course qualifies as a research/writing course.

1014. Issues in United States History. This course will examine several historical themes or problems in the history of the United States. This course qualifies as a research/writing course.

1015. Ideas and Society in the West. This course introduces students to early modern western history (1500 – 1800) through the study of original texts. It will combine lectures on the historical

background to the texts, discussion of them and analysis of their meanings in assigned essays. This course qualifies as a research/writing course.

1200. The History of Modern Issues. An examination of issues confronting the modern world from the perspective of their evolution over centuries and across national boundaries. This course qualifies as a humanities/social science course.

Page 150, following the heading History, sub-heading General Degree, delete current Clause 2. and replace with the following:

"2. Any two of History 1010–1015, 1200 or the sequence History 1100* and 1101* form the introductions to the theory and practice of history. Third and fourth-year students taking History courses as electives or to satisfy General Regulations for the B.A. Degree are encouraged to enrol in the department's second-year courses. Students cannot receive credit for more than two first-year courses."

Following the sub-heading 4. Major in History, delete the current first paragraph "Students who undertake...including:" and replace with the following:

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

Add new Clause a) as follows:

"a) No more than six credit hours in courses beginning with the initial digit "1", one of which must be a designated research/writing course."

Amend current Clause f) to read as follows:

"f) The following courses may not be used to meet the requirements for a Major in History without the prior written approval of the Head: 4480, 4800, 4821, 4822, 4998, and 4999."

Re-letter current Clauses a) – g) as b) – h).

Following the sub-heading Minor in History, delete the first paragraph and replace with the following:

"Students who undertake a Minor in History must complete 24 credit hours in History, including:"

Add new Clause a) as follows:

"a) No more than six credit hours in courses beginning with the initial digit "1", one of which must be a designated research/writing course."

Relabel the current a) – e) and b) – f).

Following the sub-heading Specialization in Maritime History, amend entry to read as follows:

"The Department of History offers a specialization in Maritime History. Recommended courses include History 2100**, History 2110, History 3680, History 3690, and six credit hours from History 4670–4690.

* For descriptions of History 1100 and 1101, see the separate section under Sir Wilfred Grenfell College.

** Sir Wilfred Grenfell College only.

Following the heading Honours Degree, delete current Clauses 3. and 4. and insert new Clauses 3. and 4. as follows:

"3. Students are required to complete at least 60 credit hours in History, 45 chosen in accordance with the pattern set out in the Departmental General Degree Regulation No. 4 above. In addition, students must complete History 3840 (or the former 4801), 4800, 4821, 4822, and one of 4998 or 4999. The minimum grades required are: (a) 70%, or an average of 75%, in the prescribed number of courses, and (b) 70% in either of History 4998 or History 4999.

4. Students electing Joint Honours are required to complete at least 51 credit hours in History, 39 chosen in accordance with the pattern set out in the Departmental General Degree Regulation No. 4 above.

In addition, students must complete History 3840 (or the former 4801), 4800, 4821, and 4822, with grades prescribed in Honours Degree Regulation No. 3. If the candidate chooses to do the Honours Essay 4999 or Comprehensive Examination 4998 in History, it must be passed with a grade of 70% or better".

63.11 Department of Folklore

Page 135, 1996–97 University Calendar, following the heading Major in Folklore, amend Clause d) to read as follows:

"d) Six credit hours...1050, 1060, 3910, 3920, 3930, 3940, 3950, 4440, 4450, 4480;"

Following the entry for Folklore 3940 insert the following new course:

"3950. Women and Traditional Culture. An introduction to the ways in which women shape and/or are shaped by traditional culture. Readings and lectures will explore roles and contributions of women as folklore collectors, examine representations of women in folklore forms, and analyze women's creation of their own traditions."

63.12 Limited Enrolment Courses

Page 117, 1997–98 Calendar, immediately preceding the heading, Degree Regulations, insert new entry as follows:

"LIMITED ENROLMENT COURSES

Certain course offerings in the Faculty of Arts will be identified as being Limited Enrolment Courses and will be clearly identified as such in the University Timetable. Students who have registered for a Limited Enrolment Course must confirm their registration either (1) by attending at least one of the first three hours of lecture in the course (and the first meeting of any laboratory section of the course, if appropriate); or (2) by notifying the department in writing within the first five university working days of the semester. Students who do not confirm their registration may be dropped from the course on the recommendation of the Head of Department."

63.13 Regulations for the Honours Degree of Bachelor of Arts

Page 119, 1997–98 Calendar, following the heading Regulations for the Honours Degree of Bachelor of Arts, amend the first sentence of the second paragraph to read as follows:

"Students who register...September 1, 1998..."

Following the sub-heading 1. Admission and Registration delete Clause 1.a) and replace with the following:

"a) Admission to Honours programmes is competitive and limited, depending upon available resources. Candidates should consult the criteria established for the programme in question. To be considered for admission to an Honours programme, a candidate shall submit an "Application for Admission to the Honours Programme" form to the Registrar. The application must be approved by the Head of the Department or Programme Supervisor of the Subject of Specialization before the candidate can be admitted to the programme."

Delete Clause 1d) in its entirety.

Following the sub-heading 2. Subjects of Specialization delete the NOTE following Clause 2.a).

Following the sub-heading 3. Course Requirements, delete Clause 3.a) and replace with the following:

"a) All candidates are required to complete the Core Requirements as detailed in the Regulations for the General Degree of Bachelor of Arts (see above, p.***). These include:

- (i) English Requirement
- (ii) Second Language Requirement
- (iii) Numeracy/Science Requirement
- (iv) Humanities Requirement

(v) Social Science Requirement

(vi) Research/Writing Requirement"

Amend the final sentence of the first paragraph of Clause b)ii to read as follows:

"Normally, the Honours essay will count as three credit hours in the Subject of Specialization, or as six credit hours in the case of linked (A/B) honours essays (please consult departmental regulations)."

63.14 Research/Writing Courses

Add as a final sentence to the course descriptions of the following courses, "This course qualifies as a Research/Writing course":

Anthropology (S/C)2410

Classics 1100 and 1101

Folklore 2100

Linguistics 4201

Russian 2600, 2601, 2900 and 2901

History 1010, 1011, 1012, 1013, 1014 and 1015

Political Science 2500

Religious Studies 1000

63.15 Environmental Studies

Amendment to the Regulations for the Bachelor of Arts Degree Programme as approved by Senate at a meeting held May 13, 1997.

Following the heading Regulations for the Bachelor of Arts Degree, sub-heading Distribution of Humanities, Social Science, and Science, add the following to the Social Science List:

"Environmental Studies 1000 and 2000"

63.16 Bachelor of Science Degree Programme in Economics

Page 215, 1997–98 Calendar, following the section for Earth Sciences and before the section for Geography, insert new section as follows:

"ECONOMICS

For Departmental Regulations and Course Descriptions, see Faculty of Arts section of the Calendar."

Page 190, following the heading Regulations for the General Degree of Bachelor of Science, amend Clause 2)c) as follows:

"c) The thirty–six or more credit hours in courses from one subject referred to in a) above, may be chosen from the following subjects, and may include courses in that subject which were completed at first–year level: Biology (see Note 5), Biochemistry (see Note 7), Chemistry, Computer Science (see Note 3), Earth Sciences, Economics, Geography, Mathematics (except 1150, 1151) and Statistics, Physics, Psychology."

Page 128, following the heading Economics, delete the sections General Degree and Honours Degree in their entirety and replace with the following:

"ADMISSION REGULATIONS (B.Sc.)

Students are normally admitted to the B.Sc. Programme upon successful completion of thirty credit hours which must include

- (a) Six credit hours in English courses
- (b) Six credit hours in Mathematics courses

GENERAL DEGREE (B.A. or B.Sc.)

1. Students may Major in Economics as part of either a B.A. or a B.Sc programme. See the General Regulations for the B.A. and B.Sc. Degrees as appropriate.

2. Economics 2010 and 2020 are prerequisites for all other Economics courses except Economics 2070.
3. Economics 2550, 3000 and 3010 are prerequisites for all 4000-level courses.
4. Candidates shall consult with the Head of the Department or delegate when choosing courses for a Major in Economics.
5. Mathematics 1080 and 1081 or their equivalents are prerequisites for Economics 3000, 3010, and 3550.
6. B.A. candidates who undertake a Major in Economics shall complete Statistics 2500 and at least 39 credit hours in courses in Economics of which:
 - a) 2010, 2020, 2550, 3000, 3001, 3010 and 3550 are obligatory.
 - b) Eighteen credit hours shall be chosen from among the various Economics courses in consultation with the Head of the Department or delegate, and will include at least nine credit hours in courses at the 4000-level.
 - c) Candidates may, with the approval of the Head of the Department or delegate, substitute Statistics 2510 for Statistics 2500.
7. B.A. candidates majoring in Economics shall complete a minor of 24 credit hours in one other approved subject, or a second Major in accordance with General Regulations. It is recommended that the Minor or second Major be chosen from the following subjects: Business, Mathematics, Political Science, Statistics, Computer Science, History, Geography, Philosophy, Sociology, or Anthropology.
8. B.Sc. candidates who undertake a Major in Economics shall complete at least 42 credit hours in courses in Economics of which:
 - a) 2010, 2020, 2550, 3000, 3001, and 3010 are obligatory
 - b) Six credit hours shall be chosen from either 3550 and 3551, OR 4550 and 4551

c) Eighteen credit hours shall be chosen from among the various Economics courses in consultation with the Head of the Department or delegate, and will include at least nine credit hours in courses at the 4000-level.

9. B.Sc. candidates must complete credits from other Science disciplines as follows:

a) Mathematics 1000 (or 1081), 1001, and 2050

b) Statistics 2510, or its equivalent, and an additional three credit hours of Statistics

c) Computer Science 1700, and an additional three credit hours of Computer Science

d) At least three credit hours in an additional science subject other than Mathematics/Statistics, Economics, and Computer Science

HONOURS IN ECONOMICS (B.A. or B.Sc.)

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

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

3. All candidates shall complete all non-Economics courses required of B.A. or B.Sc. Majors, and at least 60 credit hours in courses in Economics, of which 2010, 2020, 2550, 3000, 3001, 3010, 3011, 3550, 3551, 4550 and 4551 shall be chosen.

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

63.17 Department of Earth Sciences

Page 214, 1997–98 Calendar, following the heading Fourth Year delete the current prerequisite for Earth Sciences 4902 and replace with the following:

"Earth Sciences 1000 and completion of any 15 credit hours in core courses at the 3000 or 4000 level (see General Note 5) in Biology, Biochemistry, Chemistry, Earth Sciences, or Physics; or permission of the instructor."

Delete the current prerequisite for Earth Sciences 4903 and replace with the following:

"Earth Sciences 1001, Biology 2120 (or Biology 1001 and 1002) and completion of any 15 credit hours in core courses at the 3000 or 4000 level (see General Note 5) in Biology, Biochemistry, Chemistry, Earth Sciences, or Physics; or permission of the instructor."

63.18 Department of Chemistry

Page 196, 1997–98 Calendar following the heading Physics/Chemistry Joint Honours, amend Clause e) to read as follows:

"e) Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or their equivalents, 2210, 2300, 2400, 2401 and thirty credit hours...4300 and 4301."

Page 205, following the heading General Degree–Major in Chemistry, delete the paragraph beginning "To be admitted as a Chemistry Major, students must..." and replace with the following:

"To be admitted as a Chemistry Major, students must have completed thirty credit hours in courses at the first year level including Chemistry 1050, 1051 (or their equivalents), Physics 1050, 1054 (or 1020, 1021), Mathematics 1000, 1001 (or 1080, 1081), English 1080, 1110 (or equivalent) and six credit hours in elective courses. In addition, students must obtain a minimum average of 60% in eight of the ten first year courses. For the purposes of declaring a major in Chemistry, a grade of 80% or better in each of Chemistry 1010 and 1011 or a grade of 85% or better in Chemistry 1011 or a combined average of 65% or better in Chemistry 1000 and 1001 or Chemistry 1200 and 1001 and the

permission of the Head of the Department, will be deemed equivalent to the required Chemistry 1050, 1051.

NOTE: Students completing Chemistry 1010 and 1011 must complete Chemistry 1031 (except as noted for Chemistry 2400) before proceeding to second year Chemistry courses."

Page 206, following the heading Honours Degree in Chemistry, delete current Clause d) and replace with the following:

"d) Computer Science 1700 or 2602 or 2650."

Delete Chemistry 2420 in its entirety.

Delete the current prerequisites for Chemistry 1050(F) and 1051(W) and replace with the following:

"Prerequisites: Mathematics 1000 (or 1081). Mathematics 1000 (or 1081) may be taken concurrently with Chemistry 1050. Chemistry 1050 and Mathematics 1000 (or 1081) are prerequisites for Chemistry 1051."

Delete the current Note 1) following Chemistry 1050(F) and 1051(W) and replace with the following:

"NOTE 1): For entry to Chemistry 1050 students must have

i) achieved at least 80% in high school Chemistry 3202 and

ii) successfully completed high school Advanced Mathematics 3201."

Following the course description for Chemistry 2600 add the following as Note 3) and following the course description for Chemistry 2601 add as Note 2):

"This course will not be offered in the current academic year."

63.19 Department of Computer Science

Page 208, 1997-98 Calendar, following the heading Programmes in Computer Science, insert new Clause d) as follows:

"d) Computer Internship Option (CIIO)"

Re-letter current d) – l) as e) – m).

Delete the entry for the Computer Internship Option (CIIO) which was approved at the Senate meeting held on October 14, 1997, in its entirety and replace with the following which incorporates minor editorial changes requested by the Department of Computer Science:.

"Computer Industry Internship Option (CIIO)

The CIIO provides an opportunity for qualified students to obtain rewarding jobs in computer industries for several months of continuous duration, and, at the same time, to gain practical skills in an employment situation during their course of studies.

The CIIO is available to Computer Science Majors (B.Sc. and B.Sc. Honours only).

Application requirement

(a) Applicants must have successfully completed at least CS1700, CS2710, CS2711, CS2740, CS2741, CS3718, CS3724 and CS3740.

(b) Applications for the internship will not be considered if all computer science courses required for the CS major/honours degree will have been completed prior to the beginning of the internship.

(c) Admission to the CIIO is subject to academic performance.

Internship duration

Subject to the availability of job openings, a student may choose either an 8, 12 or 16 consecutive month internship period.

Internship placement

A competition for internship employment is organized by the Department Co-ordinator (hereafter referred to as Co-ordinator).

A student who has applied to the internship programme gives permission to the Co-ordinator to supply prospective employers with copies of his/her resume.

A student who has been accepted to the CIIO may obtain his/her own internship placement outside the competition. Such jobs must be confirmed by the employer, and must be subject to the approval of the Co-ordinator and the Head of the Department of Computer Science.

A student who withdraws from an internship programme, after a placement, without any reason of grievance, will not be accepted in the internship programme again in the future.

Students are not permitted to drop internship periods without prior approval from the Co-ordinator and the Head of the Department of Computer Science. Students who drop an internship period without permission, or who fail to honour an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the job, will normally be awarded a fail grade for that internship period.

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

Expectation of work

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

At the end of the internship period, the student is required to submit a final report which will include the description of the project, the objectives, the goals, and the duties of the intern; it would also include a history of the intern's activities and accomplishments.

Registration, Assessment of Performance, and Assignment of Grades

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

CS3700 is a non-credit course.

Student performance evaluations are to be completed by the employer and returned to the Co-ordinator. Evaluations are requested every four months. In the evaluation form, the intern also can include his/her comments.

The overall assessment of work performed during the entire internship period is the responsibility of the Co-ordinator, and will be done based upon input from the employer and the final report submitted by the intern.

Assessment of performance will result in the assignment of one of the following grades in the final semester of internship:

Pass with Distinction: Indicates EXCELLENT PERFORMANCE in both the work report and work performance.

b) Pass: Indicates that PERFORMANCE MEETS EXPECTATIONS in both the work report and the work performance.

Fail: Indicates FAILING PERFORMANCE in the work report or the work performance.

Also, the following will be noted in the transcript of the intern:

Requirements for the Computer Industry Internship Option have been completed. Internship Duration: – months.

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

CIIO and Honours Programme

In case a student is enrolled in both the Honours programme and the CIIO, the requirements of both must be met. Upon approval from the honours project supervisor, the employer and the Head of the Department of Computer Science, an internship project may be submitted as a component of an honours project."

Following the heading Course Numbering Scheme insert the following immediately before "1-Programming Languages":

"0-Non-Credit course"

Following the heading Third Year Courses insert the following:

"3700. Industrial Experience (F) (W) & (S). Students who are admitted to the CIO are required to register for this non-credit course every semester during their internship.

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

Page 50, 1997-98 Calendar, amend General Regulation section D.1.a) by inserting the following:

"(iii) Students who have been admitted to the CIO (Computer Industry Internship Option), offered by the Department of Computer Science, and who are registered for the duration of any semester in the internship period, are termed Full-time Students."

Following the entry for Computer Science 4718, insert the following courses:

4716. Software System Design and Implementation (W). This course studies the methodology of developing well-engineered large-scale software systems. It introduces the principal paradigms of software design and implementation and provides hands-on practice of software engineering concepts and object-oriented techniques (with CASE tools) in project team environments.

Prerequisite: Computer Science 4718

4719. Software Specification (F). The primary emphasis in this course is on the mathematical specification of software in Z. Z is a mathematical notation based on sets, functions, and relations, using schemas to place logical constraints on sets of values. The basic of Z notation and schema calculus will be presented, followed by examples of the use of Z. In addition, some elementary features of a pure functional programming language will be presented to

further support the advantages of a mathematical treatment of software.

Prerequisite: Computer Science 3711 or 3718.

Re-number 4715–4719 (excluding 4718) as 4715 and 4717.

Following the entry for Computer Science 4756 insert the following course:

4759. Computer Networks (W). The operation of computer networks requires the following: a) communication between two computers, b) information transfer between two computers not directly connected, and c) services that need computer communication. This course focuses on the standard solutions and services used to fulfill the previous requirements. These include: physical transmission of signals, reliable communication based on unreliable communication channels, the routing of messages between connected computers to reach computers that are not directly connected, e-mail, file transfer, name servers, remote terminal access and the World Wide Web. Particular attention will be placed on the workings of the Internet.

Prerequisite: Computer Science 3725.

Insert the following course before the entry for 4780:

4761. Human–Computer Interaction (W). User modelling, task analysis, user–interface design, environments and toolkits, prototyping, user psychology, empirical methods, usability analysis. Representative methods, techniques, and tools are applied to the design and development of human–computer systems.

Prerequisites: Statistics 2510, CS 3713 and CS 3714.

Replace 4755–4769 (excluding 4756) with 4755–4769 (excluding 4756, 4769 and 4761).

Page 209, following the course description for Computer Science 2740, add the following Note:

"NOTE: Credit cannot be obtained for both Computer Science 2740 and Pure Mathematics 2320."

Page 195, following the heading Statistics /Computer Science Joint Honours (B.Sc. only), delete "PM 2320" from Clause a).

Delete the words "Twenty-one" at the beginning of Clause b) and replace with "Twenty-four".

Page 196, following the heading Pure Mathematics/Computer Science Joint Honours (B.Sc. only), delete "PM 2320" in the second Clause a).

Delete the word "twelve" in the first line of second Clause b) and replace with "fifteen".

Page 197, following the heading Statistics/Computer Science Joint Major (B.Sc.) only delete "PM 2320" from Clause c).

Delete the word "six" in the first line of Clause d) and replace with "nine".

Following the heading Pure Mathematics/Computer Science Joint Major (B.Sc. only), delete "PM 2320" from Clause c).

Delete the word "six" in the first line of Clause d) and replace with "nine".

Page 194, following the heading Joint Honours Degree in Computer Science and Geography, sub-heading 3) Additional Requirements, delete Pure Mathematics 2320 from Clause a).

Following the sub-heading 2) Geography Requirements, delete the words "forty-five" and replace with "forty-eight". Delete the word "eighteen" and replace with "twenty-one",

Page 196, following the heading Joint Major in Computer Science and Geography, sub-heading 3) Additional Requirements, delete Pure Mathematics 2320.

Following the sub-heading 2) Geography Requirements, delete the words "thirty-six" and replace with "thirty-nine". Delete the word "nine" and replace with "twelve".

63.20 Department of Biochemistry

Page 199, 1997-98 Calendar following the heading Course List amend the course entry for Biochemistry 3107 by deleting the words "Laboratory: One three-hour laboratory or one-hour tutorial per week" and replacing with the following:

"Laboratory: Up to four hours per week which will normally consist of one three hour laboratory period plus one additional hour on the following day."

Amend the prerequisite for Biochemistry 3402 by deleting the words "or 3100".

Page 198, following the heading Professional Programme in Dietetics insert the following immediately following the first paragraph:

"NOTE: Students who intend to apply for admission to this programme are advised to consult the Dietetics Coordinator in the Department during their first semester of study for information about the programme."

Page 198, following the heading Nutrition Programme, sub-heading Minor in Nutrition delete Clauses a) and b) and replace with the following:

"a) Biochemistry 2101, 3106, 3200, 3201.

b) Chemistry 2401 or 2440.

c) Nine credit hours chosen from Biochemistry 311A, 311B, 4300, 4301, 4302."

Page 86, following the heading Biochemistry amend the prerequisite for Biochemistry 1430 by adding the following:

"or Chemistry 1810 or equivalent".

Page 199, following the heading Course List amend the prerequisite for Biochemistry 1430 by adding the following:

"or Chemistry 1810 or equivalent".

63.21 Department of Physics

Page 223, 1997–98 Calendar following the heading Course List delete the entries for Physics 3600 and 4600 and replace with the following:

"3600. Optics and Photonics I. Geometrical Optics: thin lenses, mirrors, optical systems. Two-beam and multiple-beam interference phenomena. Fraunhofer Diffraction. Introduction to Maxwell's Theory: reflection, transmission, and polarization. Modulation of light waves. Fibre-optical light guides: intermodal dispersion, index profiles, loss mechanisms, single mode fibres. Optical communication systems: free space and fibre systems, emitters, detectors, amplifiers, wavelength-division multiplexing, integrated optics.

Prerequisites: Mathematics 2000 and Physics 2055.

Lectures: Three hours per week.

4600. Optics and Photonics II. Review of basic topics in wave optics. Phase sensitive imaging. Electromagnetic waves in anisotropic media. Scattering of electromagnetic waves. The physics of light sources and applications. Non-linear optics and applications.

Prerequisites: Physics 3500, 3600, and Physics 3751 (Physics 3751 may be taken concurrently).

Lectures: Three hours per week."

63.22 Department of Geography

Page 145, 1997–98 Calendar following the heading Course Descriptions amend the prerequisite for Geography 3110 to read as follows:

"Prerequisites: Geography 2102, 2195 and one of Geography 2220, Statistics 2500 or Statistics 2510."

69.23 Department of Biology

New Course

4140. Nematology. A study of plant parasitic, insect parasitic and free-living marine, freshwater and terrestrial nematodes, with emphasis on taxonomy, biology, economic importance, control methodologies and environmental applications.

Three hours of lecture and three hours of laboratory per week.

Prerequisites: Biology 2010, 2122, 2600.

Page 202, 1997-98 Calendar following the heading Course List amend the prerequisite for Biology 2010 to read as follows:

"Prerequisites: Biology 1002, Chemistry 1010 or 1050 (or 1000 or 1200)".

63.24 Department of Mathematics and Statistics

New Programme

"APPLIED MATHEMATICS/COMPUTER SCIENCE JOINT MAJOR (B.Sc. only)

The following courses are required

(a) Computer Science 1700, 2710, 2711, 2740, 2741, 3711, 3714, 3724, 3725, 3740, 4718, 4721, plus six further credit hours in Computer Science courses numbered 3000 or higher.

(b) M1000, M1001, M2000, M2001, M2050, M2051, AM2130, AM3132, AM3161, AM3190, AM/PM3202, AM/PM3260, AM4160, AM4190, plus one of AM/PM3210, AM4131, AM4132, AM4162

In addition, ST2510 is highly recommended.

Note: With the exception of Computer Science 2602 – Basic and Fortran, students in this programme shall not receive credit for Computer Science service courses."

Page 208, following the heading Computer Science, sub-heading Programmes in Computer Science insert the following after item l) to read as follows:

"m) Applied Mathematics/Computer Science Joint Major (B.Sc. only)."

Page 215, following the heading Mathematics and Statistics, sub-heading Programmes in Mathematics and Statistics insert the following after item p) to read as follows:

"q) Applied Mathematics/Computer Science Joint Major (B.Sc. only)."

Amend the last sentence to read as follows:

"Details of programmes (i) through (q) are given after the Honours B.Sc. regulations."

63.25 Joint Programme Requirements for Mathematics and Computer Science

Page 195, 1997–98 Calendar, following the heading Statistics/Computer Science Joint Honours (B.Sc. only) amend Clause a) by deleting "PM2320".

Amend Clause b) by deleting the word "Twenty-one" and replacing with "Twenty-four".

Add the following paragraph after Clause e) to read as follows:

"*Staffing levels do not permit admitting students to the STATISTICS/COMPUTER SCIENCE JOINT HONOURS in the current academic year."

Page 197, following the heading Statistics/Computer Science Joint Major (B.Sc. only) amend Clause c) by deleting "PM2320".

Amend Clause d) by deleting the word "six" and replacing with "nine" .

Following the heading Pure Mathematics/Computer Science Joint Major (B.Sc. only) amend Clause c) by deleting "PM2320".

Amend Clause d) by deleting the word "six" and replacing with "nine".

Page 196, following the heading Applied Mathematics/Physics Joint Honours amend Clause e) by deleting "PM2320" and replacing with "AM2130".

Page 195, following the heading Statistics/Computer Science Joint Honours (B.Sc. only) add the following to Clause b):

"and ST4581".

Page 196, following the heading Pure Mathematics/Statistics Joint Honours add the following to Clause e):

"excluding ST4581".

Page 197, following the heading Statistics/Computer Science Joint Major (B.Sc. only) amend Clause b) to read as follows:

"b) ST2510 and ST2560".

Amend Clause d) by adding the following:

"excluding ST4581".

Page 215, following the heading Regulations amend the second sentence of Regulations 5) to read as follows:

"Credit may be obtained for only one of Statistics 2501, 2560 (former 2511), and Psychology 2901."

Following the heading Major in Statistics amend Clause b) by adding the following:

"excluding ST4581".

Page 217, following the heading Honours in Statistics add the following to Clause b):

"excluding ST4581;".

Following the heading Minor in Statistics amend Clause a) to read as follows:

"a) Mathematics 1000, 1001; Statistics 2500 or 2510, Statistics 2501 or 2560."

Amend Clause b) by adding the following:

"excluding ST4581".

Page 219, following the heading Pure Mathematics Courses delete the entry for 3410 and replace with the following:

"3410. Mathematical Statistics I (F). Basic probability concepts, combinatorial analysis, conditional probability, independence, random variable, distribution function, mathematical expectation, Chebyshev's inequality, distribution of two random variables, binomial and related distributions, Poisson, gamma, normal, bivariate normal, t, and F distributions, transformations of variables including the moment-generating function approach.

One and a half hour tutorial period weekly.

Prerequisite: M2000".

Amend the entry for Pure Mathematics 3411 to read as follows:

"3411. Mathematical Statistics II (W). Sampling distributions. Limiting distributions, central limit theorem, minimum variance unbiased estimators, confidence intervals, MLE and its asymptotic properties, exponential family, sufficient statistics, Rao-Cramér inequality, efficiency, Neyman-Pearson lemma, chi-square tests, likelihood ratio test.

One and a half hour tutorial period weekly.

Prerequisite: PM/ST3410."

Amend the course description for Pure Mathematics 4410 by deleting "chi-square tests,".

Page 220, following the heading Statistics Courses delete note 1 and relabel note 2 as 1.

Amend the note for Statistics 2500 by adding the following:

"Statistical computer package will be use in the laboratory, but no prior computing experience is assumed."

Amend the prerequisite for Statistics 2501 to read as follows:

"Prerequisite: ST2500 or ST2510."

Amend the note for Statistics 2501 by adding the following:

"Statistical computer package will be used in the laboratory."

Amend the course description for Statistics 2510 to read as follows:

"Elements of probability, conditional probability, Bayes' Theorem, discrete random variables, cumulative distribution function, introduction to continuous random variables, mathematical expectation, estimation of mean, proportion and variance, hypothesis testing for one-sample case."

Amend course description for Statistics 2550 to read as follows:

"An introduction...chi-square test, one way analysis of variance, correlation and simple linear regression."

Amend note for Statistics 2550 by adding the following:

"Statistical computer package will be used in the laboratory, but no prior computing experience is assumed."

Delete and replace the entry for Statistics 2560 to read as follows:

"2560 (former 2511). Further Statistics for Science Students. Estimation and hypothesis testing in the two-sample and paired sample cases, one way and two way analysis of variance, simple and multiple linear regression, chi-square tests, non-parametric tests including sign test, Wilcoxon signed rank test and Wilcoxon rank test.

Prerequisite: ST2500 (with M1000 or M1081) or ST2510.

NOTE: Credit can be obtained for only one of ST2501, ST2560, the former ST2511, and Psychology 2901. Statistical computer packages will be used in the laboratory, but no prior computing experienced is assumed."

Amend the prerequisite for Statistics 3520 by deleting "ST2511" and replacing with "ST2560 (former 2511)".

Amend the prerequisite for Statistics 4550 to read as follows:

"Prerequisite: one of ST3520 or ST3521, or PM/ST3411."

Amend the prerequisite for Statistics 4560 to read as follows:

"Prerequisites: M2051, PM/ST3410 and one of ST3520, or ST/PM3411, or ST3521."

Amend the prerequisite for Statistics 4590 to read as follows:

"Prerequisite: one of ST3520, or ST3521, or PM/ST3411."

Page 219, following the heading Pure Mathematics Courses delete and replace the entry for Pure Mathematics 2320 to read as follows:

"2320. Discrete Mathematics (F)(W). Basic concepts of mathematical reasoning, sets and set operations, functions, relations including equivalence relations and partial orders as illustrated through the notions of congruence and divisibility of integers, mathematical induction, principles of counting, permutations, combinations and the Binomial Theorem.

Prerequisite: M1001 or M2050.

Note: Credit cannot be obtained for both PM2320 and Computer Science 2740."

Page 218, following the heading Applied Mathematics Courses delete and replace the entry for Pure Mathematics 3240 to read as follows:

"3240. Applied Graph Theory (F). Algorithms and complexity, definitions and basic properties of graphs, Eulerian and Hamiltonian chains, shortest path problems, graph coloring, planarity, trees, network flows, emphasis on applications including scheduling problems, tournaments, and facilities design.

Prerequisite: PM2320."

Page 219, following the heading Pure Mathematics Courses delete and replace the entry for Pure Mathematics 3340 to read as follows:

"3340. Introductory Combinatorics (W). Topics include distributions, the binomial and multinomial theorems, Stirling numbers, recurrence relations, generating functions and the inclusion-exclusion principle. Emphasis will be on applications.

Prerequisite: PM2320."

Delete and replace the entry for Pure Mathematics 3370 to read as follows:

"3370. Introductory Number Theory (F). Perfect numbers and primes, divisibility, Euclidean algorithm, greatest common divisors, primes and the unique factorization theorem, congruences, cryptography (secrecy systems), Euler-Fermat theorems, power residues, primitive roots, arithmetic functions, Diophantine equations, topics above in the setting of the Gaussian integers.

Prerequisite: PM2320."

Page 218, following the heading Applied Mathematics Courses delete and replace the note for Applied Mathematics 2120 to read as follows:

"Note: First priority for enrolment in this course is given to students whose majors are in mathematics or statistics. Other students wishing to register must obtain permission from the head of department. Students enrolled in any programme within the Department of Mathematics and Statistics who have completed or are currently registered for AM2130, Computer Science 2710 or Computer Science 2602 cannot receive credit for AM/PM 2120."

63.26 Science 115A/B

Page 230, 1997–98 Calendar, delete and replace the entry for Science 115A/B to read as follows:

"Science 1150 (F) and 1151 (W). (Formerly Science 115A/B): An introduction to some concepts in the Physical and Life Sciences. These courses are primarily intended for the non-science major (B.A.; B.Ed (primary and elementary)).

NOTE: Science 1150 and 1151 are not acceptable as prerequisites for 2000-level courses in Physics, Chemistry, Biology, Geography or Earth Sciences. Credit may not be obtained for both Science 115A and Science 1150 or for Science 115B and Science 1151."

63.27 Department of Psychology

Page 193, 1997–98 Calendar following the heading Joint Programmes, sub-heading Biochemistry (Nutrition)/Psychology (Behavioural Neuroscience) Joint Honours number current note as NOTES (1) and insert new note (2) to read as follows:

"(2) Students in first year intending to follow this programme should note the regulations for admission to Major programmes in Psychology on p. *** of the Calendar and that the deadline for submission of a "Declaration/Change of Academic Programme" form to the Psychology Department is June 1 for the Fall semester and October 1 for the Winter semester."

Following the sub-heading Biochemistry/Psychology (Behavioural Neuroscience) Joint Honours number current note as NOTES (1) and insert new note (2) to read as follows:

"(2) Students in first year intending to follow this programme should note the regulations for admission to Major programmes in Psychology on p. *** of the Calendar and that the deadline for submission of a "Declaration/Change of Academic Programme" form to the Psychology Department is June 1 for the Fall semester and October 1 for the Winter semester."

63.28 Faculty of Education

Page 232, 1997-98 Calendar, following the heading Table of Contents, sub-heading Diploma Regulations, delete the following words:

"Diploma in School Resource Services".

Page 234, following the heading Diploma Programmes delete the following words:

"- Diploma in School Resource Services".

Page 244, delete the section REGULATIONS FOR THE DIPLOMA IN SCHOOL RESOURCE SERVICES and its entirety.

Page 238, following the heading Bachelor of Education (Secondary), sub-heading Admission delete Note 3) and renumber Notes 4) and 5) as 3) and 4) respectively.

Page 247, following the course title for Education 3211 insert the designation "P" to read as follows:

"Introduction to Career Education (P,E,S)."

Page 235, following the heading Bachelor of Education (Primary) and Bachelor of Education (Elementary) sub-heading Admission delete the note and replace with the following:

"NOTE: These regulations will be used as guidelines for Admission for 1999, 2000 and 2001."

Delete Clause 2) and 2)a)-f) and replace with the following:

"2). To be considered for admission to the Bachelor of Education (Primary) and (Elementary) degree programmes, students must have successfully completed sixty credit hours as outlined below with either a cumulative average of at least 65% or an average of at least 65% on the last thirty credit hours which they have successfully completed.

The sixty credit hours are:

twelve credit hours in English including two first year courses and English 2390 and English 3650.

Mathematics 1050 and 1051. (Not required for students completing a concentration in Mathematics)

Psychology 1000 and Psychology 1001.

Science 1150 and 1151; or Science 1000 (with laboratory) and Science 1001 (with laboratory); or nine credit hours in Science, three credit hours each to be chosen from Biology, Chemistry, Earth Sciences or Physics. (Not required for students completing a concentration in Science)

French 1010 and 1011 or equivalent.

six credit hours chosen in any combination from one or more of the following areas of Anthropology, Economics, Folklore, Geography, History, Political Science, and Sociology.

fifteen credit hours from one area of concentration.

Additional credits chosen from any subject areas outside of Education."

Delete Clause 3) and 3) a)–c) and replace with the following:

"3) In assessing application to the Bachelor of Education (Primary) and (Elementary) degree programmes, consideration will be given to the following:

the average on the common core of courses required for admission from Clauses 2) a)–e) above;

the overall academic performance;

a personal statement and resume as outlined on the application to the Faculty of Education."

Page 235, following the heading Regulations for the Degree of Bachelor of Education (Primary) delete Clause 2) a) and replace with the following:

"2)a) Twelve credit hours in English including two first year courses and English 2390 and English 3650."

Delete Clause 2) d) and replace with the following:

"d) Psychology 1000 and Psychology 1001."

Delete Clause 2) e) and replace with the following:

"e) Six credit hours chosen in any combination from one or more of the following areas of Anthropology, Economics, Folklore, Geography, History, Political Science and Sociology."

Insert new Clause 2)f) to read as follows:

"f) French 1010 and 1011 or equivalent."

Relabel current Clause 2)f) as 2)g) and 2)g) as 2)h).

Page 237, following the heading Regulations for the Degree of Bachelor of Education (Elementary) delete Clause 2)a) and replace with the following:

"2)a) Twelve credit hours in English including two first year courses and English 2390 and English 3650."

Delete Clause 2)d) and replace with the following:

"d) Psychology 1000 and Psychology 1001."

Delete Clause 2)e) and replace with the following:

"2)e) Six credit hours chosen in any combination from one or more of the following areas of Anthropology, Economics, Folklore, Geography, History, Political Science and Sociology."

Insert new Clause 2)f) to read as follows:

"2)f) French 1010 and 1011 or equivalent."

Relabel current Clause 2)f) as 2)g) and 2)g) as 2)h).

Page 232, following the heading Table of Contents, sub-heading Degree Regulations delete title "Bachelor of Vocational Education" and replace with "Bachelor of Education (Post-Secondary) as a First Degree".

Insert the following:

"Bachelor of Education (Post-Secondary) as a Second Degree".

Following the heading Table of Contents, sub-heading Diploma Regulations delete title "Diploma in Vocational Education" and replace with "Diploma in Post-Secondary Education"

Following the heading Table of Contents, sub-heading Course List delete title "Vocational Education" and replace with "Post-Secondary Education".

Page 234, following the heading Degree Programmes delete title "Bachelor of Vocational Education" and replace with "Bachelor of Education (Post-Secondary) as a First Degree".

Insert new line to read as follows:

"- Bachelor of Education (Post-Secondary) as a Second Degree".

Following the heading Diploma Programmes delete title "Diploma in Vocational Education" and replace with "Diploma in Post-Secondary Education".

Page 242, delete the heading "Admission Requirements to the Degree and Diploma Programmes in Vocational Education" and replace with the following:

"Admission Requirements to the Degree and Diploma Programmes in Post-Secondary Education".

Following the current heading Admission Requirements to the Degree and Diploma Programmes in Vocational Education delete the words "To be admitted to the Bachelor of Vocational Education Degree and Diploma programmes" and replace with the following:

"To be admitted to the Post-Secondary Education Degree and Diploma programmes".

Delete the words "Vocational Education" in the note and in Clause 4 and replace with "Post-Secondary Education".

Delete the section "Regulations for the Degree of Bachelor of Vocational Education" in its entirety and replace with the following:

"REGULATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION (POST- SECONDARY) AS A FIRST DEGREE

1) A candidate for the Bachelor of Education (Post-Secondary) Degree will be required to complete the equivalent of at least one hundred twenty credit hours approved by the Office of Student Services.

2) The one hundred and twenty credit hours must include:

Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700

Twenty-one credit hours to be chosen from: Education 2800, 2803, 2806, 3440, 3710, 3720, 3730, 4710, 4730, 4760-80.

c) Six credit hours in English.

d) Thirty non-Education credit hours patterned to strengthen the area of teaching specialization and/or provide the development of depth in a related field of study as approved by the Office of Student Services. Education 4760-4780 may be used to satisfy non-Education specialization course credit hour electives if not already used to satisfy clause 2)b) above.

e) Twelve additional credit hours from any subject areas outside of Education. Six of these twelve credit hours may be chosen from courses listed in clause 2)b) above if not already used to satisfy the requirements of clause 2)b).

3)a) Advanced standing to a maximum of thirty credit hours may be awarded for students possessing at least a combined total of six years of training and work experience in the occupational area in which training was obtained.

b) Students who because of a deficiency of work experience are not eligible to receive the maximum of thirty credit hours advanced standing will be required to obtain further work experience and/or to complete additional university courses, either or both of which must be approved by the Admissions Sub-Committee for Post-Secondary Education.

4) At least half the credit hours required under clauses 2a) and b) above must be completed at this University.

BACHELOR OF EDUCATION (POST-SECONDARY) AS A SECOND DEGREE

1) To be admitted to the Bachelor of Education (Post-Secondary) Degree programme, a student must meet the special admission requirements outlined above.

2) A candidate shall complete at least thirty credit hours at this University beyond those required for the first degree. A candidate who has received a first degree at this University may be permitted, with the approval of the Committee on Undergraduate Studies of the Faculty Council of the Faculty of Education, to complete six of these thirty credit hours at another institution recognized by the Senate.

3) To obtain the Bachelor of Education (Post-Secondary) as a second degree a candidate must complete at least thirty-six credit hours in Education.

4) The thirty-six credit hours must include:

a) Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700.

b) Fifteen credit hours of which six must be chosen from Education 2800, 2803, 2806, or 3440 and nine must be chosen from 3710, 3720, 3730, 4710, 4730 or 4760-80

5) At least nine of the credit hours required under clause 4) a) must be completed at this University.

NOTES: 1) The requirement of Education 4700 may be waived by the Committee on Undergraduate Studies on the recommendation of the Office of Student Services. (Please refer to Student Teaching Guidelines).

2) Work competence and experience related to occupational area is required for acceptance to this programme as outlined in the Admission Requirements but no advanced standing will be granted."

Page 243, delete section "REGULATIONS FOR THE DIPLOMA IN VOCATIONAL EDUCATION" in its entirety and replace with the following:

"REGULATIONS FOR THE DIPLOMA IN POST-SECONDARY EDUCATION

1) A candidate for the Diploma in Post-Secondary Education will be required to complete sixty credit hours.

2) The sixty credit hours must include:

a) Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700.

b) Nine credit hours to be chosen from: Education 2803, 3710, 3720, 3730, 4710, 4730, 4760-80

3) a) Advanced standing to a maximum of thirty credit hours may be awarded for students possessing at least a combined total of six years of training and work experience in the occupational area in which training was obtained.

b) Students who because of a deficiency of work experience are not eligible to receive the maximum of thirty credit hours advanced standing will be required to obtain further work experience and/or to complete additional University courses, either or both of which must be approved by the Admissions Sub-Committee for Post-Secondary Education.

4) At least twenty-four of the credit hours required under clause 2 (a) and (b) must be completed at this University.

NOTE: 1) The requirement of Education 4700 may be waived by the Committee on Undergraduate Studies on the recommendation of the Office of Student Services. (Please refer to Student Teaching Guidelines)."

Page 245, following the heading Course Descriptions and sub-heading Legend delete "V: Courses for students on the VOCATIONAL EDUCATION Programme" and insert the following before SE:

"PS: Courses for students on the POST-SECONDARY EDUCATION PROGRAMMES."

Amend the designation for Education 2710 to read as follows:

"(I,NS,PS)".

Amend the title and designation for Education 2720 to read as follows:

"Introduction to Post-Secondary Education (PS)".

Amend the title and designation for Education 2730 to read as follows:

"General Methods of Teaching in Post-Secondary Education (I,PS)".

Amend the designation for Education 2800 to read as follows:

"(A,PS)".

Amend the designation for Education 2801 to read as follows:

"(A,PS)".

Amend the designation for Education 2803 to read as follows:

"(A,PS)".

Amend the designation for Education 2806 to read as follows:

"(A,PS)".

Amend the designation for Education 3280 to read as follows:

"(PS)".

Amend the title and designation for Education 3440 to read as follows:

"Organization and Administration of Programmes in Adult Education (A,PS)".

Amend the title and designation for Education 3710 to read as follows:

"Group Instruction in Post-Secondary Education (I,PS)".

Amend the title and designation for Education 3720 to read as follows:

"Individualized Instruction in Post-Secondary Education (I,PS)".

Amend the title and designation for Education 3730 to read as follows:

"Curriculum and Instructional Development in Post-Secondary Education (I,PS)"

Amend the designation for Education 3801 to read as follows:

"(PS)".

Amend the title and designation for Education 4700 to read as follows:

"Student Teaching in Post-Secondary Education (PS)"

Amend the title and designation for Education 4710 to read as follows:

"Seminar in Post-Secondary Education (PS)".

Amend the designation for Education 4730 to read as follows:

"(PS)".

Amend the title and designation for Education 4760-4780 to read as follows:

"Advanced Specialized Post-Secondary Technologies (PS)".

Page 253, following the heading Student Teaching amend the title and designation for Education 4700 to read as follows:

"Student Teaching in Post-Secondary Education (PS)".

Following the heading Waiver Guidelines of Education 3700, 4700, Post-Sessional Block, 401X delete Clause 2) and replace with the following:

"2) Students who have at least two years of teaching experience as required of the Post-Secondary Education programmes and three years of teaching experience for Technology Education programme, and who produce written reports from their former principal or other appropriate authority to the Office of Student Services, certifying the quality of their experience may be excused from one of Education 4700 or 3700.

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 two years of teaching in Post-Secondary Education."

Page 256, delete the heading "COURSES IN VOCATIONAL EDUCATION" and replace with the following:

"COURSES IN POST-SECONDARY EDUCATION" .

Immediately following the current heading COURSES IN VOCATIONAL EDUCATION delete the words "Vocational Education" and replace with the following:

"Post-Secondary Education".

Amend the designation for Education 2710 to read as follows:

"(I,NS,PS)".

Amend the title, designation and course description for Education 2720 to read as follows:

"2720. Introduction to Post-Secondary Education (PS). Study of the back-ground of Post-Secondary Education and of its development and present forms in Newfoundland, other provinces of Canada, and other countries; an examination of current programmes in Post-Secondary Education; the role of federal and provincial governments in Post-Secondary Education."

Amend the title and designation for Education 2730 to read as follows:

"General Methods of Teaching in Post-Secondary Education (I,PS)".

Amend the title and designation for Education 3710 to read as follows:

"Group Instruction in Post-Secondary Education (I,PS)".

Add the following prerequisite to Education 3710:

"Prerequisites: Education 2710, 2720 and 2730."

Amend the title and designation for Education 3720 to read as follows:

"Individualized Instruction in Post-Secondary Education (I,PS)".

Add the following prerequisite to Education 3720:

"Prerequisites: Education 2710, 2720 and 2730."

Delete and replace the title, designation and course description for Education 3730 to read as follows:

"3730. Curriculum and Instructional Development in Post-Secondary Education (I,PS). Social, cultural, philosophical, and economic forces influencing changes in Post-Secondary curriculum and instructional methods. Study of current Post-Secondary Education curriculum designs, problems and trends; methods of gathering curriculum information; procedures for revising and evaluating a curriculum.

Prerequisites: Education 2710, 2720 and 2730."

Amend the title and designation for Education 4700 to read as follows:

"Student Teaching in Post-Secondary Education (PS)".

Add the following prerequisite to Education 4700:

"Prerequisites: Education 2710, 2720, 2730, 2801, 3280 and 3801."

Amend the title, designation and course description for Education 4710 to read as follows:

"4710. Seminar in Post-Secondary Education (PS). The identification, analysis and discussion of major issues, practices and problems in Post-Secondary Education in Newfoundland and Canada.

Prerequisites: Education 2710, 2720 and 2730."

Amend the designation and course description for Education 4730 to read as follows:

"4730. Educational Programmes and Practices in Industry and Labour (PS). A study of the various Post-Secondary Education

programmes operated either wholly by industry and labour or jointly with educational institutions; apprenticeship, work experience and study programmes, co-operative education, training-in-industry, training on-the-job, supervisory training, management development.

Prerequisites: Education 2710, 2720 and 2730."

Amend the title, designation and course description for Education 4760-4780 to read as follows:

"4760-4780. Advanced Specialized Post-Secondary Education Technologies (PS). The theory and practice of selected advanced specialized Post-Secondary Education technical skills and their application to the laboratory, workshop and business office. Emphasis will be placed on innovative and emerging techniques in selected areas of business, industry, and the service occupations."

Page 256, following the heading Courses in Adult Teacher Education delete preamble and replace with the following:

"These courses are designed for students enrolled in the Diploma Programme in Adult Teacher Education and the Post-Secondary Education Degree and Diploma programmes and can be used for credit on those programmes as outlined in the Regulations for the Degree and Diplomas and as indicated below."

Amend the designation for Education 2800 to read as follows:

"(A,PS)".

Amend the designation for Education 2801 to read as follows:

"(A,PS)".

Amend the designation for Education 2803 to read as follows:

"(A,PS)".

Amend the designation for Education 2806 to read as follows:

"(A,PS)".

Amend the designation for Education 3440 to read as follows:

"(A,PS)".

Page 249, move the entry for Education 3801 to section, Courses in Post-Secondary Education.

Insert the following after the entry for Education 3751 and before Education 3802 to read as follows:

"Education 3801. Educational Media I (PS). (See course description in Post-Secondary Education section)."

Page 252, amend entry for Education 4720 to read as follows:

"Education 4720. Principles and Management of Technology Education Programmes (I,E,NS). (See course description in Technology Education Section)."

Page 256, delete the designation "V" for Education 4720 and move the entry to the section, Courses in Technology Education.

Following the heading Courses in Technology Education add the following to the preamble:

"unless otherwise indicated".

Page 239, following the heading Bachelor of Music Conjoint with Bachelor of Music Education, sub-heading Admission amend the first paragraph of Clause 3 to read as follows:

"To be considered for admission, students must have successfully completed a minimum of forty five credit hours with either a cumulative average of at least 65% or an average of at least 65% on their last thirty credit hours which they have successfully completed. Applicants must be in good standing with the School of Music."

Delete Clause 3 b) and replace to read as follows:

"b) at least three credit hours from the following: Music 3221, 3222, 3231, 3232, 3233, 3241, 3242, 3281, 3282."

Delete and replace Clause 3 c) to read as follows:

"c) at least twelve credit hours in Music, in addition to the three in 3 (b) above. Consideration..."

Amend Clause 4 c) to read as follows:

"c) two letters of reference, one of which must be from a faculty member of the School of Music."

Insert new Clause 4 d) to read as follows:

"d) The establishment of a second teaching area is highly recommended upon admission."

Amend Clause 5 to read as follows:

"In addition to Clause 4 a), b), c) and d) above, ..."

Page 240, following the heading Regulations for the Conjoint Degrees of Bachelor of Music (Major in General Studies) and Bachelor of Music Education delete note and replace with the following:

"3) A maximum of two of the following courses in music education may be used to fill requirements of Regulation 6 (c) of the Bachelor of Music and Bachelor of Music Education Conjoint Degree Programme: 4835, 4840, 4845, 4850, 4855, 4860."

Amend clause 2.a) to read as follows:

"a) Education 2610"

Following the heading Regulations for the Bachelor of Music Education as a Second Degree amend Clause 2) to read as follows:

"...the requirements in Clause 2 and 3 above of the..."

Page 245, following the heading Course Descriptions insert the following after the designation "A" and before the designation "SE":

"ME: Course for students on the Music Education Programme"

Add "ME" designation to the following courses to read as follows:

"2050. Introduction to Drama Education (P,E,ME).

Social Studies in the Primary Grades (P,ME,NPE).

An Introduction to the Teaching of Science in the Primary and Elementary Grades (T,ME,NPE).

Health and Safety Education in the Primary and Elementary Grades (P,E,ME).

Physical Education in the Primary and Elementary Grades (P,E,ME,NPE).

2200. Language Arts (P,E,T,NPE,ME).

Elementary School Music Methods (ME).

Voice and Choral Methods (ME).

Primary School Music Methods (ME).

Introduction to Child Development (P,E,ME,T,NPE).

Principles and Practices of Teaching (Primary) (P,ME).

Principles and Practices of Teaching (Elementary) (E,ME).

Drama Education in the Primary and Elementary Grades (P,E,ME).

3050. The Teaching of French as a Second Language in the Primary and Elementary Schools (P,E,ME).

Foundations of Art Education (P,E,ME,NS).

3121. Education Through Art (P,E,NS,ME).

Science in the Primary Grades (P,ME).

Science in the Elementary Grades (E,ME).

Language Arts in the Primary Grades (P,ME).

Language Arts in the Elementary Grades (E,ME).

Primary Curriculum (P,ME).

Curriculum in the Elementary Grades (E,ME).

Introduction to Learning Resources (P,E,ME).

Reading in the Primary Grades (P,ME).

Reading in the Elementary Grades (E,ME).

Educational Media I (ME).

3807. Learning Resources, Curriculum and Instruction (P,E,ME).

Instrumental Teaching Methods (ME).

Secondary School Music Methods (ME).

Mathematics in Primary and Elementary Grades (P,E,ME).

The Assessment of Primary Children (P,ME).

The Assessment of Elementary Children (E,ME).

Social Studies in the Elementary Grades (E,ME,NPE).

403X. Internship in Music Education (ME).

The Teaching of Art in the Secondary School (IS,ME).

Teaching Theatre Arts in the Secondary School (IS,ME).

The Teaching of English Language and Literature in the Secondary School I (IS,ME).

The Teaching of English Language and Literature in the Secondary School II (IS,ME).

The Teaching of Core French in the Secondary School (IS,ME,NS).

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

The Teaching of Core French and French Immersion in the Secondary School (IS,ME).

The Teaching of Mathematics in the Secondary School (IS,ME,NS).

The Teaching of Computer Science in the Secondary School (IS,ME,NS).

The Teaching of Physics in the Secondary School (IS,ME).

The Teaching of Chemistry in the Secondary School (IS,ME,NS).

The Teaching of Social Studies in the Secondary School I (IS,ME,NS).

The Teaching of Social Studies in the Secondary School II (IS,ME,NS).

The Teaching of Physical Education in the Secondary School (IS,ME).

The Teaching of Religious Studies in the Secondary School (IS,ME).

Religious Education in Primary and Elementary Grades (P,E,ME).

The Teaching of Biology in the Secondary School (IS,ME,NS).

The Teaching of Earth Science in the Secondary School (IS,ME,NS).

Sociology of Education (P,E,ME).

History of Education (P,E,ME).

Philosophy of Education (P,E,ME).

4830. Music Education Seminar (ME).

Orchestra Methods (ME).

Advanced Band Methods (ME).

Pre-School Music Education (ME).

Advanced Primary School Music Methods (ME).

Advanced Elementary School Music Methods (ME).

Advanced Secondary School Music Methods (ME).

403X. Internship in Music Education (ME)."

Page 253, following the heading Courses in Music Education add "ME" designation to the following courses to read:

"2510. Elementary School Music Methods (ME).

Voice and Choral Methods (ME).

Primary School Music Methods (ME).

3920. Instrumental Teaching Methods (ME).

Secondary School Music Methods (ME).

403X. Internship in Music Education (ME).

Advanced Secondary School Music Education Methods (ME).

Music Education Seminar (ME).

Orchestra Methods (ME).

Advanced Band Methods (ME).

Pre-school Music Education (ME).

Advanced Primary School Music Methods (ME).

Advanced Elementary School Music Methods (ME)."

Page 235, following the heading Registration in Education Courses (Non-Education Students insert the following after "Education 2610" and before "Education 3210":

"Education 2800

Education 2801

Education 2803".

63.29 Faculty of Engineering and Applied Science

A memorandum dated January 20, 1998 was received from the Senate Committee on Undergraduate Studies forwarding a proposal from the Faculty of Engineering and Applied Science for a new Computer Engineering Programme to replace the existing Computer and Communication option currently offered in the Electrical Engineering Programme. While the Committee agreed to approve this proposal for forwarding to Senate, it expressed concern with regard to the issues raised by the Department of Computer Science as stated in a letter dated January 9, 1998, from the Head of the Department. In light of the concerns that have been raised, the Senate Committee on Undergraduate Studies asked Senate to determine whether the issues to be addressed be addressed prior to, or on an on-going basis, following the approval and implementation of the proposed Computer Engineering Programme.

A further memorandum dated January 23, 1998 was received from the Senate Committee on Undergraduate Studies forwarding documentation which had been circulated to the Committee by Dr. K. Vidyasankar, a Committee member and member of the Department of Computer Science and it was agreed by the Senate Committee on Undergraduate Studies that this documentation be forwarded to Senate for its information in considering the Computer Engineering proposal. The Committee reiterated its request that Senate determine when the issues raised should be addressed.

A memorandum dated January 29, 1998 was also received from the Dean of Engineering and Applied Science advising that the proposal is essentially a re-configuration and re-naming of the existing Computer and Communications Option within the Electrical Programme, which was approved by Senate in 1995 and has been successfully offered since then. The only substantive change is the addition of one new course.

It was moved by Dr. Treslan and seconded by Dr. Venkatesan that the proposal for the establishment of a Computer Engineering Programme be approved.

It was moved by Dr. Maxwell and seconded by Professor Kuester that the issues with respect to the proposed Computer Engineering Programme should be resolved before it is considered for approval by Senate.

Following a discussion of parliamentary procedure, the Chair ruled that the Treslan/Venkatesan motion was in order. Dr. Sabin then spoke to the motion referring to the memorandum dated January 29, 1995 from the Dean of Engineering and Applied Science.

It was then moved by Dr. Wolinetz, seconded by Dr. Maxwell and carried that the previous motion be tabled until Senate determines whether the issues raised by the Department of Computer Science should be addressed prior to, or on an on-going basis, following the approval and implementation of the proposed programme.

It was moved by Dr. Maxwell and seconded by Professor Kuester that the issues with respect to the proposed Computer Engineering Programme should be resolved before it is considered for approval by Senate.

Dr. Adamec proposed an amendment to the motion which was agreed to by the mover and seconder so that the amended motion reads as follows:

It was moved by Dr. Maxwell, seconded by Professor Kuester and carried that the issues with respect to the proposed Computer Engineering Programme should be resolved before it is considered for approval by Senate and that the Committee on Committees be asked to recommend terms of reference and membership, for

consideration at the March 10 meeting of Senate, for an ad hoc Committee to be created for the purpose of resolving these issues as expeditiously as possible in order that the Computer Engineering Programme might be considered no later than the May, 1998 meeting of Senate for offering in the 1998/99 academic year.

63.30 School of Music

Page 177, 1997–98 Calendar, following the heading F. CONJOINT DEGREES PROGRAMME: BACHELOR OF MUSIC AND BACHELOR OF MUSIC EDUCATION

Amend Clause 3 to read as follows:

"One of Music 3102, 3109, or 3104".

Page 178, following the heading Applied Music Courses, delete and replace the note to read as follows:

"Note: With the exception of Music 2611–2616, courses in applied music are available only to candidates for the degree of Bachelor of Music."

Page 179, insert the following note before the course description for Music 2611.

"Note: Music 2611–2616 are available for credit to any student who successfully auditions for participation in the ensemble. To audition, please contact the instructor or the School of Music office before the beginning of the semester. Please note:

These courses are not applicable as electives under the Bachelor of Arts programme.

Students in the Faculty of Education should consult the Office of Student Services in the Faculty of Education regarding applicability of these courses to their degree."

63.31 School of Physical Education and Athletics

Page 262, 1997–98 Calendar, following the heading Courses Available to Non-Bachelor of Physical Education (Co-operative)

Students, delete the course numbers and titles for Physical Education 3520, 4510 and 4520.

Page 265, following the heading Programme of Study insert new Clause e) to read as follows:

"e) Sociology 1000 or 2000 or equivalent."

Relabel current e), f), g), h), i), j), k) as f), g), h), i), k), l).

Amend current Clause i) to read as follows:

" i) Nine credit hours in courses from the Faculties of Arts and Science other than those listed above in Clauses 3) a),b),c),d),e),f),g), and h) or other faculties approved by the Committee on Undergraduate Studies of the School."

Page 266, following the heading Table 3, Bachelor of Recreation (Co-operative) Programme sub-heading Year 1, Winter Semester (Academic 2) delete Business 1101 and insert Sociology 1000 or 2000. Following the sub-heading Year 2, Winter Semester (Academic 4) insert Business 1101 and delete "Non-Recreation Elective".

63.32 Sir Wilfred Grenfell College

Page 104, 1997-98 Calendar, following the heading Degree Regulations, insert new Regulation 9 to read as follows:

"9. The 132 credit hours required for the BFA (Visual Arts) degree are distributed as follows:

Year one: two semesters of 15 credit hours each.

Year two: two semesters of 18 credit hours each.

Year three: two semesters of 18 credit hours each.

Year four: two semesters of 15 credit hours each."

Page 100, following the heading Academic Performance amend Clause 4 by adding the following:

"A student placed on probation at the end of the final semester of the Theatre programme will not be recommended for graduation."

Page 103, following the heading Academic Performance amend Clause 4 by adding the following:

"A student placed on probation at the end of the final semester of the Visual Arts programme will not be recommended for graduation."

Page 86, following the heading Anthropology insert the following course:

"3080. The Third World. An examination of the anthropology of the Third World. The course considers perspectives on peasantry, including such topics as underdevelopment, land reform, hunger, political and social movement."

Page 86, following the heading Biochemistry, amend the prerequisites for Biochemistry 1430 by adding the following:

"or Chemistry 1810 or equivalent".

63.33 Marine Institute

New Course

Technology 4010. Assessment of the Implementation of Technology. Introduction to Effects Assessment; Generation of Product/Project Alternatives; Identification of Effects on the Physical Environment; Identification of Effects on the Social, Economic, Aesthetic, Cultural and Historic Environments; Effects Prediction, Verification and Mitigation; Evaluation of Project/Product Alternatives; Introduction to Federal, Provincial and Municipal Assessment Legislation.

Prerequisite: Admission to the Bachelor of Technology Programme.

Amendment to a previous calendar change approved by Senate at a meeting held April 8, 1997. Delete Technology 4000 and replace with the following:

"Technology 4000 – Technical Project and Report

This course provides a link between the other courses of the Programme and the technical component from the diploma. It gives the student the opportunity to carry out an in-depth study of a technical topic in the broader context provided by the degree Programme. The report will be written under the supervision of a faculty member; both the topic and the advisor must be approved by the Programme Committee.

Students may begin work on their project proposal informally at any time following admission to the Programme but the report must be completed within one year of the approval of the advisor by the Programme Committee. This will normally be towards the end of the period of studies required for the degree. Students will register for Technology 4000 in the semester they expect to complete the course and must submit the report no later than 3 weeks before the end of this semester."

Amendment to a previous calendar change approved by Senate at a meeting held April 8, 1997. Delete the section "Bachelor of Technology" in its entirety and replace with the following:

"BACHELOR OF TECHNOLOGY

The Bachelor of Technology degree has been developed to provide access to a degree to those who have graduated from an accredited Diploma of Technology programme in Health Sciences Technology or Engineering/Applied Science Technology. The student receives credit for the diploma courses as a block and undertakes a series of courses which may be taken on a full time, part time, or distance basis to satisfy the degree requirements. These courses provide the student with exposure to general management concepts; and understanding of the societal context in which their technology careers are based; and research, analysis and report writing experience.

The programme is administered by a Programme Committee having representation from the Marine Institute (at which the programme is administered), the Faculties of Engineering, Business, Arts, Science

and Medicine, and the Schools of Nursing and Pharmacy, along with representatives from the College of the North Atlantic.

1. ADMISSION REQUIREMENTS

a) Applicants must meet the regular admission requirements of the University and either

b) Applicants holding a diploma from the Marine Institute or The College of the North Atlantic in an accredited area in Health Sciences or Engineering/Applied Science Technology will be awarded the degree upon satisfactory completion of the courses in the degree regulations, or

c) Applicants holding a diploma similar to a Marine Institute or College of the North Atlantic three-year accredited diploma will have their status adjudicated relative to the diploma requirements in the appropriate area. Appropriate exemptions will be granted and a course of study developed.

2. GENERAL NOTE

Specific regulations for the programme may be waived upon the approval of the Marine Institute Undergraduate Committee upon the recommendation of the Programme Committee.

3. DEGREE REGULATIONS

To be awarded the degree of Bachelor of Technology, a candidate shall successfully complete the following 39 credit hour programme with a minimum average of 60% in the courses required for the degree:

1. All students enrolled in the Bachelor of Technology must complete the following courses:

Six credit hours in First Year English (preferably 1080 and 1110)

Business 1000 – Introduction to Business

Business 2301 – Organizational Behaviour

Business 3320 – Introduction to Labour Relations

Business 4320 – Introduction to Personnel and Human Resource Management OR

Psychology 3501 – Industrial Psychology

Technology 4000 – Technical Project and Report

Two courses chosen from the following such that at least one is taken from Group B:

Group A Business 1201 – Principles of Marketing

Business 3700 – Information Systems

Business 4000 – Business Law I

Business 6320 – Advanced Labour Relations OR

Economics 3360 – Labour Market Economics

Group B Economics 2010 – Introduction to Microeconomics I

Economics 3080 – Natural Resources and Environmental Economics

Geography 4410 – Research Seminar in Resources

History 3660 – The Scientific Revolution

Religious Studies 3830 – Religion, Science and Technology

Sociology 2120 – Technology and Society

Sociology/Anthropology 3220 – Work and Society

Sociology/Anthropology 3317 – Oil and Society

Sociology/Anthropology 4091 – Oil and Development

Women's Studies 4107 – Women and Technological Change

Students may also choose any course from the University Calendar to be used as a Group B course providing they have the permission of the Department offering the course and the course has been approved by the Programme Committee. To be so designated, the course must deal with some aspect of the societal context of technology.

2. Students with an Engineering/Applied Science Technology Diploma must complete the following courses in addition to those specified in 1 above:

Business 2102 – Introductory Accounting for Non-Business Students

Technology 4010 – Assessment and Implementation of Technology

Engineering 4102 – Engineering Economics

Mathematics/Statistics 2500 – Statistics for Business and Arts Students

Students having completed courses as a component of their diploma programme for which a waiver of any of the above noted courses may be granted are required to complete additional electives chosen from other university courses acceptable to the Programme Committee. It should be noted that courses in the Faculty of Engineering and Applied Science may be used to satisfy this requirement, subject to the student being granted permission to register for the course by that Faculty.

3. Students with a Health Sciences Technology Diploma must complete the following courses in addition to those specified in 1 above:

Nursing 4002 – Introduction to Nursing Research: Methodology and Critique

Nursing 5210 – Health Care Systems

Plus two courses chosen from the following:

Economics 2020 – Introduction to Macroeconomics

One of Psychology 2010, 2011, 2012 – The Psychology of Human Development

Psychology 2800 – Drugs and Behaviour

Nursing 3023 – Counselling

Nursing 4701 – Current Concepts in Pathophysiology

One of Biology 2040 or 2041 – Modern Biology and Human Society

Sociology 2110 – Economy and Society

Students having a Health Sciences background may choose to use any course at the University to satisfy the two electives in this section, subject to the provision that permission to register for the desired course is granted by the appropriate department and the course choice is approved by the Programme Committee."

63.34 Faculty of Medicine

Page 286, 1997–98 Calendar following the heading Evaluation and Promotion delete the words "year coordinator" in several places and replace with "Chair of the Pre–Clerkship or Clerkship committee".

Delete and replace Clause 3) a) to read as follows:

"a) The Chair of the Pre–Clerkship or Clerkship and/or the Chair of the appropriate course committee is responsible for informing each student of the results of each evaluation and of any concerns that have arisen about performance."

Amend Clause 3) b) by deleting the words "chairperson of the subcommittee" and replacing with "Chairperson of course committee".

Delete and replace Clause 4) a) to read as follows:

"a) Student Promotions Committees are standing committees of the Faculty Council and are composed of the membership of the Pre–Clerkship or Clerkship Committee, except student members. The

assistant dean of student affairs, the officer of student affairs, and the director of promotions and evaluation are ex-officio members. It is the responsibility of the Student Promotions Committees to monitor each student's progress for each year of the undergraduate curriculum on the basis of the grades submitted by the course Chairperson."

Delete Clause 5) (ii) in its entirety and renumber 5) (iii) as 5) (ii).

Delete and replace Clause 11) to read as follows:

"11) Upon completion of an academic year, a student in good academic standing may elect to withdraw temporarily from studies, e.g., to pursue graduate studies after completion of the second year. Voluntary withdrawal at other times and for other reasons may be permitted in accordance with Section Q. Withdrawals from University, General Academic Regulations (Undergraduates). In all cases, the intent to withdraw voluntarily should be discussed beforehand with the Chair of the Pre-Clerkship Committee or the Chair of the Clerkship Committee and when the student is to enter the clerkship, the Chair of the Clerkship Committee. On receipt of an application from a student for voluntary withdrawal, the Dean, after consultation with the appropriate Committee Chair, should ensure that the sufficient revision and preparatory work is undertaken to allow studies to be resumed readily.

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

63.35 School of Pharmacy

Page 309, 1997-98 Calendar delete the entire entry beginning with Course List and replace with the following:

"NOTE: The following calendar entry applies to students admitted to the first year of the Pharmacy programme in 1998. Students currently enrolled in the Pharmacy programme follow the calendar of the year of their admission.

COURSE STRUCTURE – BACHELOR OF SCIENCE IN PHARMACY

First Year

Fall

- Biochemistry 3200 – Basic Human Nutrition I
- Pharmacy 3110 – Introduction to Biochemistry
- Medicine 310A – Human Physiology
- Pharmacy 3005 – Pharmaceutical Preparations
- Pharmacy 3101 – Human Anatomy
- Pharmacy 3011 – Orientation to Pharmacy

Winter

- Pharmacy 3103 – Microbiology of Infectious Disease
- Pharmacy 3111 – General Biochemistry
- Medicine 310B – Human Physiology
- Pharmacy 3012 – Physical Pharmacy
- Pharmacy 3004 – Professional Practice
- Chemistry 3100 – Analytical Chemistry

Spring

- Pharmacy 300W – Studentship

Second Year

Fall

- Pharmacy 4010 – Medicinal Chemistry I
- Pharmacy 4105 – Immunology

- Medicine 4300 – Introduction to General and Autonomic Pharmacology

- Pharmacy 4004 – Pathophysiology

- Pharmacy 4006 – Applied Pharmacokinetics

- Pharmacy 401W – Seminar

- Pharmacy 4005 – Chemotherapy

- Elective

Winter

- Biochemistry 3201 – Basic Human Nutrition II

- Pharmacy 4011 – Medicinal Chemistry II

- Pharmacy 4003 – Pharmacy Administration

- Pharmacy 4009 – Pharmacology

- Pharmacy 402W – Seminar

- Pharmacy 4104 – Therapeutics I

- Elective

- Business 1000 – Introduction to Business

Spring

- Pharmacy 410W – Studentship

Third Year

Fall

- Pharmacy 5104 – Therapeutics II

- Pharmacy 5001 – Human Toxicology

- Pharmacy 5004 – Self Medication
- Pharmacy 5009 – Pharmacoepidemiology
- Pharmacy 5005 – Communication & Patient Counselling
- Pharmacy 501W – Seminar
- Pharmacy 5017 – Pharmaceutical Technology
- Pharmacy 5008 – Radiopharmacy
- Elective

Winter

- Pharmacy 500X – Clinical Clerkship

COURSE DESCRIPTIONS

FIRST YEAR OF PHARMACY STUDIES

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

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

Lectures: Three hours per week.

Laboratory: Three hours per week. Attendance is required.

Pharmacy 3011. Orientation to Pharmacy (F) (2 cr. hrs.). An introduction to the history, organization and the role of pharmacy in the health care system. Special emphasis will be given to the

federal and provincial regulations which govern the practice of pharmacy. The relationship between law and ethics will also be discussed. The laboratory consists of computer applications as they pertain to pharmacy practice.

Lectures: Two hours per week.

Laboratory: Three hours per week. Attendance is required.

Pharmacy 3101. Human Anatomy (F) (3 cr. hrs.). Basic knowledge of cell biology, embryology and gross anatomy is presented in lectures and laboratories. The laboratory consists of demonstrations using bones, cadavers, prosected specimens, slides and photographs.

Lectures: Three hours per week.

Laboratory: Six three-hour laboratories. Attendance is required.

Pharmacy 3110. Introduction to Biochemistry (F) (3 cr. hrs.). An introductory course dealing with the chemistry and metabolism of proteins, carbohydrates, lipids and nucleic acids. Emphasis will be given to enzyme systems and the utilization of energy.

Lectures: Three hours per week.

Tutorials: As required.

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

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

Corequisite: Pharmacy 3110.

Lectures: Three hours per week.

Medicine 310A/B. Human Physiology (F)(W) (6 cr. hrs.). Topics covered are the properties of nerves and muscle cells, the nervous

system, the special senses, blood and body fluids, the cardiovascular system, digestion, respiration, renal function, endocrinology and reproduction. Integration of the body's systems in maintaining homeostasis will be emphasized.

Prerequisite or Corequisite: Pharmacy 3110. Permission of Instructor or Associate Dean of Basic Sciences for students other than Biochemistry Majors.

Lectures: Three hours per week.

Laboratory: Up to three hours per week.

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

Lectures: 3 hours per week

Laboratory: 3 hours per week. Attendance is required.

NOTE: Credit may be obtained for only one of Pharmacy 3012 and the former Pharmacy 4002.

Pharmacy 3004. Professional Practice (W) (2 cr. hrs.). Introduction to a dispensary and the operations of a dispensary. Application of pharmacy regulations in the dispensing of medications. Pharmacy record keeping using computerized and manual systems. Usage of drug delivery systems and devices. Emphasis is placed on patient counselling and the pharmaceutical care approach.

Lectures: One hour per week.

Laboratory: Two hours per week. Attendance is required.

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

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

Lectures: Three hours per week.

Laboratory: One hour per week.

Pharmacy 3111. General Biochemistry (W) (3 cr. hrs.). Metabolism of amino acids and complex lipids. Coenzyme function of vitamins. Metabolic and functional specialization of different cells and tissues.

Lectures: Three hours per week.

Tutorials: As required.

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

Chemistry 3100. Analytical Chemistry I (W) (3 cr. hrs.). Treatment of data, gravimetric analysis, volumetric analysis including oxidation-reduction titrations using electrochemical techniques, the use of specific ion electrodes and titrations in non-aqueous systems. Spectrophotometric trace analysis and titrations.

Prerequisite: Chemistry 2300.

Lectures and Laboratories: Not more than seven hours per week.

Attendance at laboratories is required.

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

Prerequisites: All courses required in the Fall and Winter Semesters of the First Year. Twelve weeks, 35 hours per week. Attendance is required.

SECOND YEAR OF PHARMACY STUDIES

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

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

Lectures: Three hours per week.

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

Lectures: Two per week.

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

Prerequisite: Pharmacy 3012.

Lectures: Three hours per week.

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

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

Prerequisite: Pharmacy 4010.

Lectures: Three hours per week.

Pharmacy 401W (F). Non–credit course. Seminars to be given by faculty, visiting speakers and graduate students on current topics in the pharmaceutical sciences. The final grade, Pass or Fail, will be based on attendance and participation. Attendance is required.

NOTE: i) This course is a necessary prerequisite for Pharmacy 402W
ii) One billing hour has been assigned to this course.

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

Lectures/Tutorials: Three per week.

NOTE: Credit may be obtained for only one of Pharmacy 4105 and the former Pharmacy 3105.

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

Prerequisite: Medicine 310A/B.

Lectures: Three hours per week.

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

Elective (F). Any three credit hours chosen from the Calendar with the approval of the Director of the School of Pharmacy (or delegate). (At least one of the Pharmacy elective courses must be completed to satisfy the elective requirement in the pharmacy programme).

Lectures: Three hours per week.

Pharmacy 4003. Pharmacy Administration (W) (1 cr. hr.). Management principles useful in operating a pharmacy. General concepts of pharmaceutical marketing and an examination of how health care is provided.

Corequisite: Business 1000.

Lectures: One hour per week.

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

Lectures: Three hours per week.

NOTE: Credit may be obtained for only one of Pharmacy 4104 and former Pharmacy 5003.

Pharmacy 4009. Pharmacology (W) (3 cr. hrs.). An undergraduate course for Pharmacy students and non-medical students who have completed Medicine 4300 (Pharmacology) or its equivalent (essential prerequisite). The course consists of lectures, laboratories and clinical case studies designed to explore topics in general pharmacology. Topics include: the pharmacology of inflammation, drugs used in the treatment of inflammatory diseases, renal pharmacology, haemostasis, anticoagulant and antithrombotic drugs, antihyperlipidemics, drugs used in the treatment of anemia, and endocrine pharmacology.

Prerequisite: Medicine 4300 (or equivalent)

Lectures: Three hours per week

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

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

Prerequisite: Pharmacy 4010.

Lectures: Three hours per week.

Pharmacy 402W (W). Non–credit course. Seminars to be given by faculty, visiting speakers and graduate students on current topics in the pharmaceutical sciences. The final grade, Pass or Fail, will be based on attendance and participation.

Attendance is required.

NOTE: i) This course is a necessary prerequisite for Pharmacy 501W
ii) One billing hour has been assigned to this course.

Biochemistry 3201. Basic Human Nutrition II (W) (3 cr. hrs.). A study of the vitamins, minerals and trace elements essential to human health and well being – chemistry, dietary source, dietary requirements, physiological role, deficiency syndromes.

Prerequisite: Biochemistry 3200

Corequisite: Pharmacy 3111

Lectures: Three hours per week.

Business 1000. Introduction to Business (W) (3 cr. hrs.). An overview of business in the Canadian environment is presented in the course with emphasis on the stakeholders involved and the issues

confronting managers. The course examines the functional areas of enterprise (finance, marketing, production, and human resources management) in addition to providing an overview of the business system. An analysis of actual business situations provides a framework of study.

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

Elective (W). Any three credit hours chosen from the Calendar with the approval of the Director of the School of Pharmacy (or delegate). (At least one of the Pharmacy elective courses must be completed to satisfy the elective requirement in the pharmacy programme).

Lectures: Three hours per week.

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

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

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

THIRD YEAR OF PHARMACY STUDIES

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

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

Lectures: Three hours per week.

Pharmacy 5104. Therapeutics II (F) (4 cr. hrs.). This course will provide an understanding of the therapeutic management of common diseases. The student is introduced to the pathophysiologies of common disease states, current drug and non-drug therapies, procedures used to monitor drug therapy for clinical response, adverse reactions, drug interactions and contraindications, and the process for distinguishing the rational from the irrational use of drugs.

Lectures: Four hours per week.

NOTE: Credit may be obtained for only one of Pharmacy 5104 and the former Pharmacy 5003.

Pharmacy 5004. Self-Medication (F) (3 cr. hrs.). An overview of non-prescription medications with discussion of their uses, effectiveness, and appropriateness for self medication treatment. The pharmacist's role as a health information resource person is emphasized.

Lectures: Three hours per week.

Pharmacy 5005. Communication & Patient Counselling (F) (1 cr. hr.). The aim of this course is to help the student develop self-confidence and interpersonal communication skills, with particular emphasis on situations that he/she might encounter when practising pharmacy.

Lectures: Two hours per week for four weeks.

Pharmacy 5008. Radiopharmacy (F) (1 cr. hr.). An introductory course discussing basic principles in the application of radiation and radioactive compounds in medical diagnosis and therapy. The rationale for the use, preparation and quality control of radiopharmaceuticals is also covered.

Lectures: Twelve hours

Laboratory: Six hours. Attendance is required.

Pharmacy 5009. Pharmacoepidemiology (F) (3 cr. hrs.). This course will cover: 1) the principles of epidemiology and its application in

public health and the health services delivery system; 2) the methods used in pharmacoepidemiologic studies; 3) the use of pharmacoepidemiology to study the benefit risk and effectiveness of drugs; and 4) the use of clinical trials to establish the efficacy of new drugs.

Lectures: Two hours per week.

Pharmacy 5017. Pharmaceutical Technology (F) (3 cr. hrs.). The principles governing the development and evaluation of novel delivery systems for drugs including therapeutic proteins and peptides. The course objectives are to provide knowledge of the physicochemical and biopharmaceutical aspects of the design, use and evaluation of novel drug delivery systems with emphasis on controlled release systems for oral and percutaneous delivery.

Lectures: Three hours per week.

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

NOTE: Credit may be obtained for only one of Pharmacy 5017 and the former Pharmacy 5007.

Pharmacy 501W. Non-credit course (F). Seminars to be given by faculty, visiting speakers and graduate students on current topics in the pharmaceutical sciences. The final grade, Pass or Fail will be based on attendance and participation.

Attendance is required.

NOTE: One billing hour has been assigned to this course.

Elective (F). Any three credit hours chosen from the Calendar with the approval of the Director of the School of Pharmacy (or delegate). (At least one of the Pharmacy elective courses must be completed to satisfy the elective requirement in the pharmacy programme).

Lectures: Three hours per week.

Pharmacy 500X. Clinical Clerkship (W). (15 cr. hrs.). Provides experience in clinical practice. Students will participate as members of the health care team. They will be responsible for providing

pharmaceutical care to patients. Activities will include attending patient care rounds, providing in-services and drug information, and participating in case presentations. Students will be evaluated periodically throughout the clerkship and will also be required to pass a written exam.

Prerequisite: Successful completion of the fall semester of the third year.

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

Pharmacy Electives

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

Prerequisite: Consent of the Undergraduate Studies Committee.

Pharmacy 5011. Pharmaceutical Biotechnology (W) (3 cr. hrs.). Principles of molecular biological technologies, particularly those of recombinant DNA, in the production of pharmaceuticals, especially proteins, peptides, monoclonal antibodies, vaccines and cytokines as well as those for gene therapy. Drug-receptor interactions and molecular modelling in drug design. Stability and delivery of protein-peptide products. Clinical and therapeutic aspects of biotechnology products.

Prerequisites: Pharmacy 4105, 4010 and Medicine 4300.

Lectures: Three hours per week.

Pharmacy 5012. Pharmaceutical Analysis (F) (3 cr. hrs.). Spectral (UV-Vis, fluorescence, IR, NMR and MS) and chromatographic (TLC, GC and HPLC) analysis of pharmaceutical agents and their metabolites. The laboratory consists of problem-solving exercises in analytical techniques widely employed in the pharmaceutical industry.

Prerequisite: Chemistry 3100 or equivalent.

Lectures: Three hours per week.

Laboratory: Three hours per week."

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

63.36 Definition of a Graduate Student

Page 386, 1997–98 Calendar following the heading Definition and Explanation of Terms used in this Calendar, sub-heading Graduate Student delete the two paragraphs and replace with the following:

"A graduate student is one who has been admitted to a graduate degree or a graduate diploma programme.

A full-time graduate student is one who registers as such, devotes full time to his or her academic programme and may not commit more than 24 hours a week working time, including teaching assistant or research assistant duties, to matters other than the degree programme.

A part-time graduate student is one who is registered for the duration of a semester and is not classified as full-time."

63.37 Revised General Regulations G.2 and G.3

Page 389, 1997–98 Calendar, following the heading G) Evaluation delete Regulation G.2. and G.3. in their entirety and replace with the following:

"2. Evaluation of Graduate Students

Failure to attain a final passing grade of A or B in a programme course shall lead to termination of a student's programme unless:

the regulations for a particular degree allow the student to repeat the course. Only one such repeat will be permitted in a student's programme. Failure to obtain a grade of A or B in the repeated course shall lead to termination of the student's programme.

the Dean of Graduate Studies approves a repeat of the course, upon the recommendation of the Supervisor and the Supervisory Committee supported by the Head of the Academic Unit, where a.i. above does not apply. Such recommendations must provide sufficient grounds for a repeat. Only one such repeat will be permitted in a student's programme. Failure to obtain a grade of A or B in the repeated course shall lead to termination of the student's programme.

NOTE: In exceptional circumstances, the Dean of Graduate Studies may approve a substitute course in place of the repeat upon the recommendation of the Supervisory Committee and Supervisor supported by the Head of the Academic Unit. Failure to obtain a grade of A or B in the substituted course shall lead to termination of the student's programme.

Failure in a non-programme course will not normally result in termination of a student's programme.

The Supervisor and the Supervisory Committee may recommend that a candidate be required to withdraw from the programme, if after consultation with the candidate, the candidate's non-course work is deemed to have fallen below a satisfactory level.

When departmental requirements for a degree requires an examination of a candidate's reading knowledge of a language(s) other than English, the examination shall be set and marked by the appropriate language department, or by an authority as determined by the Head of the academic unit and Dean. The results of the examination will be transmitted to the candidate by the Dean."

Renumber current Clauses G.4., G.5., and G.6. as G.3., G.4. and G.5.

63.38 Revision to Regulation B.1 Governing the Degree of Master of Arts

Page 397, 1997-98 Calendar, following the heading B) Programme of Study and Research add the following as a second paragraph to Clause 1:

"For programmes requiring 24 credit hours or more, the academic unit may choose not to require a thesis or comprehensive examination."

63.39 Revision to Regulation C.5 Governing the School of Social Work

Page 432, 1997–98 Calendar, following the heading Regulations Governing the Degree of Master of Social Work, sub-heading C) Programme of Study and Research delete Clause 5 iv) and replace with the following:

"iv). One course shall be SW 6911, Field Practicum, this consisting of 500 hours of field internship and instruction in the candidate's area of specialization, over one semester or two consecutive semesters.

Although consideration will be given to all factors affecting the location and type of all social work internships, the final decision regarding internship rests with the School of Social Work. Students are responsible for their own financial self-support during the internship.

Graduate students are responsible for exploring internship options and locating a person with an MSW to provide field instruction during their internship. The graduate field coordinator is responsible for finalizing the internship and field instruction arrangements in conjunction with the candidate. Part-time internships of two semesters may be considered but will require approval from the proposed agency field instructor and the graduate field coordinator.

All candidates wishing to register for SW 6911 must submit a completed Practicum Planning Information form and a Social Work Internship proposal at least three months prior to the commencement of the semester in which they intend to begin their internship.

Candidates who voluntarily withdraw from the social work internship without the prior approval of the graduate field coordinator and the chair of the graduate studies committee, or who conduct themselves in such a manner as to cause the agency

and the field coordinator to terminate placement, will normally be awarded a grade of Failure in the internship course for that semester.

Candidates who voluntarily withdraw for the field internship with the prior approval of the graduate field coordinator and chair of the graduate studies committee, cannot be guaranteed a second internship during that semester. In this case, the student will be awarded a grade of Incomplete for the internship course. The student is expected to complete an internship the following semester.

Evaluation of the social work internship will be on a PASS/FAIL basis."

63.40 Revision to Department of Philosophy Regulations

Page 404, 1997–98 Calendar, following the heading Philosophy amend the second paragraph to read as follows:

"The candidate must complete 15 credit hours: 600A/B, 6000, 6101, 6102, and a thesis."

Following the heading Philosophy, sub-heading Courses insert the following new courses:

"6101. Selected Texts

6102. Current Issues"

Amend the Special Topics course block 6040–6049 to read as follows:

"6040–6099. Special Topics".

63.41 Revisions to the Department of Religious Studies Entry

Page 404, 1997–98 Calendar, following the heading Religious Studies delete the second sentence.

Delete Clause 4 and replace with the following:

"4. Normally, the Master of Arts programme should take two years to complete, the first of which is to be spent primarily on course work and preparation of a thesis proposal. A student accepted on a part-time basis would normally be expected to take three to five years to complete the programme."

Delete Clause 5 and replace with the following:

"5. Students shall normally complete a thesis and a minimum of 12 credit hours in course work."

Delete Clause 6 and replace with the following:

"6. Students may write a thesis in one of the following areas: Hebrew Bible/Old Testament, New Testament, Judaism, East Asian religious traditions, the history of Christianity, the religious history of Canada, the religious history of Newfoundland and Labrador, medieval religious thought, religion and culture, New Age religious movements, Christian ethics, and the philosophy of religion."

Delete Clause 7 and replace with the following:

"7. Before a student begins writing his or her thesis, he/she should submit a thesis proposal to the Graduate Studies Committee of the Department for approval."

Insert new Clauses 8 and 9 to read as follows:

"8. Students will be required to satisfy the Department as to proficiency in any language or technical facility deemed necessary by the Graduate Studies Committee of the Department for successful completion of the thesis.

9. For the course work students must complete three required courses and at least one other from the course list. The three required courses are: RS 6100 Interpretations of Religion; RS 6120 Studies in Religious Texts; and RS 6130 Studies in Religious Movements and Institutions."

Following the heading Religious Studies, delete the section Courses in its entirety and replace with the following:

"6100. Interpretations of Religion (Note: Credit may not be obtained for both RS 6100 and the former RS 6000)

Studies in Religious Texts

6130. Studies in Religious Movements and Institutions

Selected Topics in New Testament

Selected Topics in Hebrew Bible/Old Testament

Selected Topics in Judaism

Selected Topics in East Asian Religious Traditions

Selected Topics in the History of Christianity

Selected Topics in the Religious History of Canada

Selected Topics in the Religious History of Newfoundland and Labrador

Selected Topics in Medieval Religious Thought

Selected Topics in Christian Ethics

Selected Topics in Religion and Culture

Selected Topics in the Philosophy of Religion

Selected Topics in New Age Religious Movements

6900-10. Special Topics in the Study of Religion".

63.42 Revisions to Department of German and Russian M.A. Regulations

Page 402, 1997-98 Calendar, following the heading German and Russian amend Clause 2 to read as follows:

"2. All candidates will complete at least 18 credit hours and a thesis in accordance with the Graduate Studies general regulations for the M.A. and at least...".

63.43 Master of Education Regulations

Page 407, 1997–98 Calendar, following the heading Regulations Governing the Degree of Master of Education insert new note 3 to read as follows:

"3) Students taking any of the Master of Education Degree programmes are advised that a Bachelor of Education Degree is required for employment in the K–12 system."

63.44 Report of the Committee on Undergraduate Scholarships and Financial Aid

At a meeting held on March 11, 1997, Senate considered the Report of the Senate ad hoc Committee on First-Year Mathematics and agreed that the following recommendation be endorsed and forwarded to the Committee on Undergraduate Scholarships and Financial Aid for appropriate action:

"That the Scholarship Committee investigate its current criteria for awarding Entrance Scholarships."

A memorandum dated January 8, 1998 has now been received from the Committee on Undergraduate Scholarships and Financial Aid in response to this request and forwarding recommendations for the consideration of Senate.

Recommendation 1. Early scholarship offers for entrance students:

Replace the current calendar entry with the following:

"Students beginning level three who, at the end of level two, had completed at least six 3000-level credits from the list of courses covered by clause B–2.A, B, C, D, of the general admission requirements may be provisionally offered scholarships."

While the Executive Committee of Senate recommended that the Committee on Undergraduate Scholarships and Financial Aid

consider similar changes for students who have followed the High School Curricula of other provinces of Canada. Dr. Rich suggested that the wording of Recommendation 1. should be amended in time for the 1998–99 Calendar.

It was moved by Dr. Ludlow, seconded by Mr. Collins and carried that the change to the current calendar entry be approved, with amendments to reflect Dr. Rich's comments. The Secretary and the Director of General Student Services agreed to amend the calendar entry in this regard.

It was moved by Dr. Ludlow, seconded by Mr. Collins and carried to approve the following calendar change in accordance with Recommendation 2.

Insert the following new paragraph after paragraph 9 to read as follows:

"Students transferring to Memorial from Universities/Colleges in Canada which are members of the Association of Universities and Colleges of Canada (AUCC) and who meet scholarship standing as defined by Memorial University will be eligible for undergraduate scholarships in the year in which they transfer."

Recommendation 3. Advanced Math versus Academic Mathematics:

The Committee on Undergraduate Scholarships and Financial Aid recommends that the current policy of NOT weighting Advanced Mathematics in favour of Academic Mathematics be maintained.

Dr. Davidson suggested that in order to encourage high school students to do Advanced Mathematics, scholarships should not be awarded to students who have completed Academic Mathematics.

Dr. Tuinman stated that when the new Atlantic Provinces Common Mathematics Curriculum is introduced, Academic Mathematics will no longer be offered in high schools, at which point this problem will no longer exist.

Mr. Carson Leonard, who was in attendance on behalf of the Committee on Undergraduate Scholarships and Financial Aid stated that the Committee on Undergraduate Scholarships and Awards

ruled that if a course meets the admission standards of this University then it should be treated in the same way as any other courses for the awarding of scholarships.

A question was asked regarding the availability of Advanced Mathematics in schools, and if in instances where it is not available in rural schools, whether it is available through distance education.

It was agreed to refer this recommendation back to the Committee on Undergraduate Scholarships and Financial Aid in order that more information may be obtained regarding the availability of Advanced Mathematics in high schools, both in the classroom and through distance education.

Amendments to the Constitution of the School of Continuing Education

A memorandum dated December 17, 1997, was received from the School of Continuing Education advising that at a meeting held on December 8, 1997, the Academic Council for the School of Continuing Education approved editorial changes to the constitution of the Council of the School of Continuing Education which were necessary as a result of the re-structuring of the School. Provision was also made to include representation from Graduate Studies and the Fisheries and Marine Institute.

It was noted that the Executive Director of the School of Continuing Education was not included with the ex-officio members.

It was agreed that the that the proposed amendment to the Constitution of the Academic Council of the School of Continuing Education, with the addition of the Executive Director of the School to the ex-officio members, be submitted to the Board of Regents for consideration.

Special Meeting

In light of the lateness of the hour, it was agreed to defer the Special Meeting of Senate until the next meeting of Senate scheduled for March 10, 1998.

Other Business

The President briefed Senators on the progress of the Opportunity Fund, noting in particular that the University's entrance scholarships have been tripled to 425 scholarships for the 1998 Fall Semester as a result of the Fund.

66. ADJOURNMENT

The meeting adjourned at 6:00 p.m.

SENATE

Addendum to the Minutes of the regular meeting of Senate held on February 10, 1998 at 4:00 p.m. in E5004.

Report of the Senate Committee on Undergraduate Studies

Faculty of Engineering and Applied Science

New Courses

8956. Petroleum Engineering. Characterization of petroleum reservoirs; high pressure oil and gas flows; pipelines; drilling equipment; processing equipment; risk assessment; economic considerations; stages of exploration; stages of production; optimal development; case studies.

8963. Nondestructive Evaluation. Damage mechanisms and failure analysis; welding technology; nondestructive testing techniques for damage detection and characterization; damage assessment and remnant life calculations using fracture mechanics; criticality and risk assessment techniques for inspection planning

Page 60, 1997-98 University Calendar, following the heading Y. Regulations for Re-Admission, and following clause 2. delete Note 2 which states:

"2) Engineering students not promoted to Term 3...immediately following Fall Semester."