

SENATE MINUTES

DECEMBER 14, 1999

The regular meeting of Senate was held on Tuesday, December 14, 1999, at 4:00 p.m. in Room E5004.

33. PRESENT

The President, Dr. E. Simpson, Dr. D. Stewart for Prof. A. Fowler, Dean W. Blake, Dean I. Bowmer, Mr. G. Collins, Acting Dean C. Doyle, Dr. E. Dow, Mr. R. Ellis, Dr. C. Higgs, Dean G. Kealey, Acting Dean C. Leonard, Dr. C. Loomis, Dean R. Lucas, Dean T. Murphy, Dr. C. Orchard, Captain P. Bulman for Mr. L. O'Reilly, Prof. H. Weir, Dr. J. Ashton, Prof. P. Ayres, Dr. G. Bassler, Dr. J. Bear, Dr. G. Clark, Prof. M. Coyne, Dr. D. Craig, Dr. J. deBruyn, Mrs. C. Dutton, Dr. J. Evans, Dr. S. Ghazala, Dr. D. Goldstein, Mr. D. Howse, Dr. H. Hulan, Dr. M. Kara, Prof. K. Knowles, Dr. W. Locke, Dr. D. McKay, Dr. M. Mulligan, Dr. H. Pike, Dr. N. Rich, Dr. S. Saha, Dr. W. Schipper, Dr. C. Sharpe, Dr. P. Sinclair, Dr. D. Treslan, Dr. D. Tulett, Prof. D. Walsh, Dr. B. Watson, Dr. P. Wilson, Mr. D. Newton, Ms. L. Borden, Mr. K. Dunne, Ms. N. Oldford, Mr. D. Tarrant, Ms. Tara Pearce.

Dr. Simpson took the Chair at the commencement of the meeting since the President was delayed.

34. APOLOGIES FOR ABSENCE

Apologies were received from Dr. M. Volk, Dr. R. Adamec, Prof. V. Kuester, Dr. V. Maxwell, Dr. J. McLean, Dr. M. Paul, Ms. M. Mack, Ms. N. Pike, Mr. P. Barnes, Mr. B. Harvey.

35. MINUTES

The minutes of the regular and special meetings held on November 9, 1999 were taken as read and confirmed.

Dr. Simpson noted that the comments from the special meeting of Senate regarding "The Future of the University Calendar" have been referred to the Senate Committee on Academic Planning. The comments have also been referred to teams working on feasibility studies in connection with the Planning and Priorities process.

These teams are examining ways and means of simplifying the University Regulations and improving the modes of internal and external communication.

REPORT OF THE EXECUTIVE COMMITTEE OF SENATE

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

36. *Report of the Senate Committee on Undergraduate Studies

36.1 Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Science in Computer Science

Page 382, 1999–2000 Calendar, following the heading Regulations for the General Degree of Bachelor of Commerce (Co-operative), subheading Admission, amend the second paragraph following clause 4) e) as follows:

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

Page 383, 1999–2000 Calendar, following the entry Joint Degree of Bachelor of Commerce (Co-operative) and Bachelor of Arts but before the heading Examination and Advancement, insert the following:

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

Any student who is admitted into the Bachelor of Commerce (Co-operative) programme may simultaneously complete the requirements for a Bachelor of Science in Computer Science degree. Under those circumstances, regulations for the Bachelor of Commerce (Co-operative) programme will be relaxed as follows. Notwithstanding clauses 3) a), e) and f) of "The Curriculum" above,

students in the Bachelor of Commerce (Co-operative) programme who are concurrently completing the Bachelor of Science in Computer Science degree will be permitted to make the following adjustments to those clauses:

a) Computer Science 2801 will not be required.

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

f) No fewer than twenty-one credit hours, but no more than thirty-six credit hours, in elective courses chosen from the Faculty of Science.

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

Page 398, 1999-2000 Calendar, after Table III, Bachelor of Commerce (Co-operative) Curriculum (Completed Jointly with the Degree of Bachelor of Arts), insert the following table and notes:

TABLE IV

BACHELOR OF COMMERCE DEGREE (CO-OPERATIVE) CURRICULUM

COMPLETED JOINTLY WITH THE DEGREE OF BACHELOR OF SCIENCE

IN COMPUTER SCIENCE

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

Term One (Fall)

- * Business 1101. Principles of Accounting
- * Business 1201. Principles of Marketing
- * Statistics 2500. Statistics for Business and Arts Students I OR
- * Statistics 2510. Statistics for Physical Science
- * Computer Science 2710. Problem Solving and Programming
- * Computer Science 2740. Discrete Structures I
- * Business 1600. Introduction to Entrepreneurship

Term Two (Winter)

- * Business 2000. Business Communications
- * Business 2101. Managerial Accounting
- * Business 2201. Marketing Applications
- * Business 2301. Organizational Behaviour
- * Business 2401. Quantitative Methods for Business
- * Computer Science 2711. Introduction to Algorithms and Data Structures

Spring [See NOTES 1 and 2 below]

Term Three (Fall)

- * Business 3320. Introduction to Labour Relations
- * Business 3401. Operations Management
- * Business 3700. Information Systems
- * Computer Science 2741. Discrete Structures II
- * Computer Science 3724. Computer Organization

Work Term I

(Winter)

Business 399W [See NOTE 1 below]

Term Four (Spring)

- * Business 4000. Business Law I
- * Business 4320. Introduction to Personnel and Human Resource Management
- * Business 4401. Management Science
- * Business 4500. Financial Management I
- * Economics 3150. Money and Banking

Work Term II (Fall) Business 499W [See NOTE 1 below]
Term Five (Winter)

- * Business 5301. Organizational Theory
- * Computer Science 3711. Algorithms and Complexity
- * Computer Science 3740. Abstract Machines, Languages and Computations
- * 2 electives [See NOTE 3 below]

Work Term III

(Spring)

Business 599W [See NOTE 1 below]
Term Six (Fall)

- * Business 7000. Business Policy
- * Computer Science 3714. Programming Languages and their Processors
- * Computer Science 3725. Computer Architecture
- * 1 Computer Science elective
- * 1 elective [See NOTE 3 below]

Term Seven (Winter)

- * Computer Science 4718. Software Methodology
- * Computer Science 4721. Operating Systems Principles
- * 1 Computer Science elective
- * 2 electives [See NOTE 3 below]

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

2) To meet the requirements for the Joint Degree in the minimum number of 150 credit hours, careful planning, particularly in the

selection of elective courses as well as in the sequence of Major programme courses, is recommended to ensure timely completion. Also, note that in order to meet the Science general regulations, students must have completed courses in at least four areas of Science.

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

Page 208, 1999–2000 Calendar, following the heading Regulations for the General Degree of Bachelor of Science, amend clause 2) e) to read as follows:

"...Major subject at this University. Students who are concurrently completing the Bachelor of Commerce (Co-operative) degree should refer to the entry JOINT DEGREES OF BACHELOR OF SCIENCE (COMPUTER SCIENCE) AND BACHELOR OF COMMERCE (CO-OPERATIVE) immediately following these regulations."

Page 210, 1999–2000 Calendar, following the heading Joint Programmes, insert the following:

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

For students registered in a programme leading to the degree of Bachelor of Science majoring in Computer Science who are concurrently completing the Bachelor of Commerce (Co-operative) degree, the number of credit hours required to comply with clause 3i of the Degree Regulation for the General Degree of Bachelor of Science will be reduced to sixty-nine credit hours. THIS ADJUSTMENT WILL BE PERMITTED ONLY FOR STUDENTS WHO ARE GRADUATING WITH THE BACHELOR OF SCIENCE DEGREE (MAJORING IN COMPUTER SCIENCE) AND THE BACHELOR OF COMMERCE (CO-OPERATIVE) DEGREE AT THE SAME CONVOCATION. In order to meet all of the requirements of both degree programmes at the same time, students who are completing the joint degrees are strongly advised to follow the SUGGESTED PROGRAMME OF STUDIES outlined below, and to seek advice from the Department of Computer Science and the Faculty of Business Administration in order to ensure that their proposed programme is possible within the constraints of course scheduling and prerequisites.

Suggested Programme of Studies:

Bachelor of Science (Computer Science)

and Bachelor of Commerce (Co-operative)

Prior to admission to the Bachelor of Commerce

(Co-operative) programme:

For the joint degrees of Bachelor of Science majoring in Computer Science and Bachelor of Commerce (Co-operative), students must successfully complete a minimum of one hundred and fifty (150) credit hours in courses applicable to the degrees. To be eligible for admission to Term 1 of the Bachelor of Commerce (Co-operative) programme, an applicant must have successfully completed thirty credit hours with an overall average of at least 65% on the courses comprising those credit hours. For the Joint Degree, the thirty credit hours must comprise:

- a) Six credit hours in English courses;
- b) Six credit hours in Mathematics courses, which must include Mathematics 1000;
- c) Economics 2010 and 2020;
- d) Business 1000;
- e) Computer Science 1700;
- f) Six additional credit hours in Science electives.

Following admission to the Joint Programme, the curriculum is as set out in Table 1 below.

Please refer to the calendar entry for the Faculty of Business Administration for complete course descriptions, regulations and plan of operation for the Bachelor of Commerce (Co-operative) component of the degree, and to the entry for Computer Science for the Computer Science course descriptions.

Table 1: Bachelor of Commerce (Co-operative) Curriculum

(Completed jointly with the degree of Bachelor of Science with a major in Computer Science)

Term One (Fall)

- * Business 1101. Principles of Accounting
- * Business 1201. Principles of Marketing
- * Statistics 2500. Statistics for Business and Arts Students I OR
- * Statistics 2510. Statistics for Physical Science
- * Computer Science 2710. Problem Solving and Programming
- * Computer Science 2740. Discrete Structures I
- * Business 1600. Introduction to Entrepreneurship

Term Two (Winter)

- * Business 2000. Business Communications
- * Business 2101. Managerial Accounting
- * Business 2201. Marketing Applications
- * Business 2301. Organizational Behaviour
- * Business 2401. Quantitative Methods for Business
- * Computer Science 2711. Introduction to Algorithms and Data Structures

Spring [See NOTES 1 and 2 below]

Term Three (Fall)

- * Business 3320. Introduction to Labour Relations
- * Business 3401. Operations Management
- * Business 3700. Information Systems
- * Computer Science 2741. Discrete Structures II
- * Computer Science 3724. Computer Organization

Work Term I

(Winter)

Business 399W [See NOTE 1 below]

Term Four (Spring)

- * Business 4000. Business Law I
- * Business 4320. Introduction to Personnel and Human Resource Management
- * Business 4401. Management Science
- * Business 4500. Financial Management I
- * Economics 3150. Money and Banking

Work Term II (Fall) Business 499W [See NOTE 1 below]
 Term Five (Winter)

- * Business 5301. Organizational Theory
- * Computer Science 3711. Algorithms and Complexity
- * Computer Science 3740. Abstract Machines, Languages and Computations
- * 2 electives [See NOTE 3 below]

Work Term III

(Spring)
 Business 599W [See NOTE 1 below]
 Term Six (Fall)

- * Business 7000. Business Policy
- * Computer Science 3714. Programming Languages and their Processors
- * Computer Science 3725. Computer Architecture
- * 1 Computer Science elective
- * 1 elective [See NOTE 3 below]

Term Seven (Winter)

- * Computer Science 4718. Software Methodology
- * Computer Science 4721. Operating Systems Principles
- * 1 Computer Science elective
- * 2 electives [See NOTE 3 below]

NOTES: 1) Students are advised that, in order to complete the joint degrees within the minimum 150 credit hours, they should be prepared to complete at least three of the courses required for the degree of Bachelor of Science as opportunities arise and as courses are offered. Following Term Two of the programme for the Bachelor

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

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

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

Page 226, 1999–2000 Calendar, following the heading Computer Science, subheading Programmes in Computer Science, insert new clause o) as follows:

"o) Joint Degree of Bachelor of Science and Bachelor of Commerce (Co-operative)"

Re-label current clause o) as p).

Following the sentence Details of Joint Programmes... add:

"Regulations governing the Joint Degree of Bachelor of Science (Computer Science) and Bachelor of Commerce (Co-operative) are found on page *** of the Calendar."

36.2 Faculty of Engineering and Applied Science

Page 359, 1999–2000 Calendar, Chart of the Ocean and Naval Architectural Engineering Curriculum (Class of 2001 and Later), under the heading Term 8, delete Physics 3300 and replace with:

"Physics 4300 Advanced Physical Oceanography"

New Courses

"4300. Advanced Physical Oceanography. Fundamental properties of seawater and techniques of oceanographic measurement. The dynamical equations of oceanography are derived and solutions explored by comparison with oceanic observations. Properties of waves in rotating and non-rotating fluids. Linear and non-linear wave theory are developed.

Prerequisites: Physics 3300 and 3820, or Engineering 7033, or the permission of the instructor.

Lectures: Three hours per week.

4330. Topics in Physical Oceanography. Advanced topics in Physical Oceanography will be covered.

Prerequisites: Physics 4300 which may be taken as a co-requisite or the permission of the instructor."

36.3 School of Physical Education, Recreation and Athletics

Page 284, 1999–2000 Calendar, following the heading Courses Available to Students not Enrolled in the Bachelor of Kinesiology (Co-operative), Bachelor of Physical Education (Co-operative) or the Bachelor of Recreation (Co-operative), delete the following:

"Students not registered in a programme in the School may register for a total of 15 credit hours from the following list, if space is available and with instructor approval."

Replace with:

"Students not in a programme offered by the School may register for a maximum of 15 credit hours from the following list if space is available. Students who have been required to withdraw from a programme offered by the School may not register for any of these courses."

36.4 Faculty of Business Administration

Page 383, 1999–2000 Calendar, immediately before the heading Examination and Advancement, insert the following:

"MINOR OR COGNATE FROM ANOTHER ACADEMIC UNIT

1) A student enrolled in the Bachelor of Commerce (Co-operative) programme may, using the non-Business electives required for admission to and graduation from the programme, complete a minor within the Faculty of Arts, the Faculty of Science, the School of Music, or a cognate at Sir Wilfred Grenfell College. Regulations for the minor are given under the Calendar entries for the Faculty of Arts, the Faculty of Science, and the School of Music, and regulations for cognates are given under the Calendar entry for Sir Wilfred Grenfell College.

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

Page 383, 1999-2000 Calendar, following the heading Admission, amend clause 4) e) to read as follows:

"...from the Faculties of Arts and/or Science** and/or Music."

Page 383, 1999-2000 Calendar, following the subheading Curriculum, amend clause 3) f) to read as follows:

"...from the Faculties of Arts and/or Science and/or Music."

Page 395, 1999-2000 Calendar, amend the last sentence in Table 1 to read as follows:

"...from the Faculties of Arts and/or Science and/or Music."

36.5 Department of Biology

Page 220, 1999-2000 Calendar, insert the following new course:

"4650. Conservation in Biology and Geography. (Same as Geography 4650). Examination of how biological and geographical principles can be applied to conserving biological diversity in the natural

world under conditions of exploitation and habitat loss. Special emphasis will be given to relevant provincial examples.

Three hours of lecture per week and 3 hours of seminar/discussion group per week.

Prerequisites: 30 credit hours in either Biology or Geography and permission of the course co-ordinator."

36.6 Department of Geography

Page 158, 1999–1999–2000 Calendar, insert the following new course:

"4650. Conservation in Biology and Geography. (Same as Biology 4650). Examination of how biological and geographical principles can be applied to conserving biological diversity in the natural world under conditions of exploitation and habitat loss. Special emphasis will be given to relevant provincial examples.

Three hours of lecture per week and 3 hours of seminar/discussion group per week.

Prerequisites: 30 credit hours in either Biology or Geography and permission of the course co-ordinator."

36.7 Department of Computer Science

Page 227, 1999–2000 Calendar, following the heading Minor in Computer Science, delete clause 1) b).

36.8 Department of Chemistry

During discussion of the calendar changes submitted by the Department of Chemistry, representatives from Sir Wilfred Grenfell College expressed their concern regarding inadequate consultation with the College, particularly in regard to Chemistry 2401, in that the new calendar description implies the use of expensive equipment which the College does not possess. Dr. Treslan advised that the Senate Committee on Undergraduate Studies was under the impression that the e-mails exchanged between officials at the

College and those at the St. John's campus were evidence of consultation. Dr. Stewart suggested that consideration by the Academic Studies Committee and the Academic Council of Sir Wilfred Grenfell College rather than by individual faculty members would have been more suitable means of consultation.

Dean Lucas first apologized to Sir Wilfred Grenfell College for the lack of consultation. He then drew Senators' attention to a note in the submission which state the "no change to either of these courses has occurred or is contemplated. The change in the calendar entry is an amplification of a previously brief course description." He advised that the calendar descriptions are being revised for transfer credit purposes. He then suggested the following amendment to the calendar description for Chemistry 2401 which should eliminate any implication that additional hardware is necessary for delivery of the course:

In the first line, add the phrase "the interpretation of" between the words "introduction to" and "infrared".

It was agreed that the amendment suggested by Dr. Lucas be included in the calendar description for Chemistry 2401 and that the general question of consultation be referred to the Senate Committee on Undergraduate Studies for consideration.

Page 225, 1999–2000 Calendar, delete the course descriptions for Chemistry 2400 and 2401, and replace with the following:

"2400. Introductory Organic Chemistry I (F). Bonding involving carbon; conformations and stereochemistry; introduction to functional groups and nomenclature; properties, syntheses and reactions of hydrocarbons, alkyl halides and alcohols.

Prerequisite: Chemistry 1051 or 1031; or Chemistry 1010 and 1011 with a grade of at least 80% in each; or Chemistry 1011 with a grade of at least 85%; or Chemistry 1001 with a grade of at least 65%.

Lectures: Three per week.

Laboratory: Three hours per week.

NOTE: Credit will not be given for more than one of Chemistry 2400, 2420, 2440 and 240A/B.

2401. Introductory Organic Chemistry II (W). An introduction to the interpretation of infrared, ^1H and ^{13}C NMR spectroscopy; properties, syntheses and reactions of ethers, simple aromatic compounds, ketones, aldehydes, amines, carboxylic acids and their derivatives; aldol and related reactions.

Prerequisite: Chemistry 2400.

Lectures: Three per week.

Laboratory: Three hours per week.

NOTE: Credit will not be given for more than one of Chemistry 2401, 2420, 2440, and 240A/B."

Page 225, 1999–2000 Calendar, delete the following course descriptions in their entirety:

"2600. Chemistry and Society I (F).

2601. Chemistry and Society II (W)."

Page 225, 1999–2000 Calendar, delete the credit restriction notes following the course descriptions for the following Chemistry courses: 2210, 2300, 3100, 3211, 3300, 3301, 4100, 4101, 4300 and 4301.

36.9 Faculty of Education

Page 259, 1999–2000 Calendar, following the heading Bachelor of Music Conjoint with Bachelor of Music Education, subheading Admission, amend clause 3) b) to read as follows:

"b) at least three credit hours from the following: Music 3221, 3222, 3231, 3232, 3233, 3241, 3242, 3261, 3281, 3282."

Page 260, 1999–2000 Calendar, following the heading Programme for Students on the Primary/Elementary Education Route, amend clause 2. (g) as follows:

Delete: "Native Studies*", and replace with: "Aboriginal Studies*"

Page 261, 1999–2000 Calendar, following the heading Programme for Students on the Secondary Education Route, amend clause 2. (i) as follows:

Delete: "Native Studies*", and replace with: "Aboriginal Studies*"

At this point the President assumed the Chair for the remainder of the meeting.

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

37.1 School of Pharmacy – Ph.D. Programme in Pharmacy

New Programme

"REGULATIONS GOVERNING THE DEGREE OF DOCTOR OF PHILOSOPHY IN PHARMACY

Professor and Director of Pharmacy

C. Loomis

The degree of Doctor of Philosophy in Pharmacy is offered to qualified candidates normally by full-time study. The General Regulations of the School of Graduate Studies of Memorial University outlined in the current Calendar, and the Degree Regulations of the School of Pharmacy outlined below will apply. Every candidate in graduate studies shall comply with the General Regulations, Degree Regulations and all additional requirements of the School of Pharmacy.

A) QUALIFICATIONS FOR ADMISSION

1. Admission to the Ph.D. program is limited and competitive. Applicants must have completed an M.Sc. Degree in Pharmacy, or its equivalent in a related discipline, from a university of recognized standing.

2. Other students may be considered for admission to a Ph.D. provided that they have been registered in a M.Sc. Pharmacy programme for a minimum of 12 months, and have demonstrated to the satisfaction of the Graduate Studies Committee of the School of Pharmacy an ability to pursue research at the doctoral level. Students wishing to transfer from the M.Sc. to the Ph.D. will have completed six credit hours. Prior to admittance to the Ph.D. programme, a written thesis proposal will be submitted for assessment by the Supervisory Committee + one additional faculty member. The recommendation of this Committee will be forwarded to the Graduate Studies Committee of the School of Pharmacy.

3. On admission to the programme, a Supervisory Committee shall be appointed in accordance with General Regulation I governing the School of Graduate Studies.

B) PROGRAMME OF STUDY AND RESEARCH

1. As a minimum, each candidate shall successfully complete six credit hours as well as Pharmacy 6999 (Pharmacy Research Seminar). A minimum grade of 65% will be required in each course. Candidates shall complete additional undergraduate courses in Pharmacy or other related areas where the Supervisory Committee considers there to be a deficiency in the academic record. Candidates may select these courses in consultation with the Supervisory Committee. However, it will be the primary responsibility of the Supervisory Committee to ensure that deficiencies in the academic record are rectified.

2. All candidates must submit a thesis proposal to the Supervisory Committee for approval no later than the second semester of study after admission to the programme.

3. All candidates must complete a comprehensive examination on or before the end of the sixth semester of study after admission to the programme. The comprehensive examination will consist of two components: a written examination and an oral examination. The oral examination will normally be held no later than two weeks after successful completion of the written examination.

4. A Comprehensive Examination Committee shall be appointed in accordance with General Regulation H. The Committee will be responsible for preparing the questions for the written and oral examinations and evaluating the candidate's performance in the subject area. The Committee will consist of the Dean of Graduate Studies (or delegate), the Supervisor, and three other members, one of whom may be a member of the Supervisory Committee. All shall be voting members of the Committee except the Dean of Graduate Studies (or delegate).

5. Successful completion of the Ph.D programme will require formal examination of the written thesis and an oral defence of the research, as prescribed in the General Regulation J. Final approval of the thesis shall be the responsibility of the Faculty of Graduate Studies.

COURSES

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

Permission of the instructor and the Graduate Studies Committee of the School of Pharmacy is required for admission to any graduate Pharmacy course.

6000. Medicinal Chemistry

6001. Advanced Physical Pharmacy

6002. Dosage Form Design & Novel Drug Delivery Systems

6003. Pharmacokinetic Modelling

6004. Principles of General Pharmacology

6005. Toxicology of Therapeutic Agents and Chemicals

6999. Pharmacy Research Seminar

6100–6104. Special Topics Courses

37.2 School of Social Work

Page 480, 1999–2000 Calendar, following the heading Social Work, subheading Doctor of Philosophy, clause 2., delete the third bullet and replace with the following:

"– 9 credit hours on research (Social Work 7411, Social Work 7421, and Social Work 7431)"

Page 480, 1999–2000 Calendar, following the subheading Doctor of Philosophy, clause 3. a), amend the last sentence to read as follows:

"Prior to proceeding to the Comprehensive...must have completed 7010, 7020, 7411, 7421, and 7431."

Page 481, 1999–2000 Calendar, following the heading Courses, delete the following:

"7410. Qualitative Research (S)

7420. Quantitative Research (S)

7430. Data Analysis for Social Workers (S)"

Insert the following:

"7411. Philosophy of Science and Research Design (S)

7421. Qualitative Data Analysis (S)

7431. Quantitative Data Analysis (S)"

38. Report of the Steering Committee on Course Evaluations

A memorandum dated November 17, 1999 was received from Dr. A. Ross, Chair, Steering Committee on Course Evaluations forwarding a progress

report as required by the Terms of Reference of the Committee.

Dr. Ross was in attendance at the meeting to introduce the report and to answer questions from Senators. He advised that:

- * A pilot testing form, copies of which were circulated to Senators at the meeting, had been given near the end of the 1999 Fall Semester to a maximum of 400 students in sixteen classes in all faculties and schools except Medicine and Engineering which already administer their own course evaluations.

- * Responses to the 17 close ended questions will be evaluated by the Committee.

- * Responses to the 3 open ended questions will be returned to the faculty member teaching a particular course from whom feedback will be sought by the Committee regarding the usefulness of the responses.

- * The above data will form the basis of a Committee report intended for submission to Senate around the end of the Winter Semester 2000.

In the ensuing discussions, a number of senators made comments regarding specific questions in the pilot questionnaire; the balance between validation and redundancy as well as between anonymity and openness; whether or not material specific questions are necessary and the like. Dr. Ross encouraged Senators to submit their suggestions for additions or changes directly to him in writing or via e-mail noting that such a process would be more suitable for Committee deliberations.

Dr. Ross also asked for advice from Senators regarding an interpretation of the word "system" in item 2. of the Terms of Reference for the Committee which states:

"Develop a system of course evaluations in accord with the recommendations of the report. The system should include a means

of collecting data, as well as procedures to process and distribute information as appropriate under the policies adopted by the university."

He noted that one of the purposes of course evaluation is to provide information to students when choosing courses and the Committee has concentrated its efforts in this area. However student evaluation is only one

Part of course evaluation which could also include information from peers on teaching dossiers and information collected at mid-term for improved teaching.

In this regard, Dr. Simpson summarized the comments from several speakers noting that Senate's intent was for the Steering Committee to come to a conclusion regarding the means by which course evaluations will be conducted, but that Senate has no aversion to the Committee doing further work in this area recognizing that it is the Senate's prerogative as to whether it wishes to entertain those further suggestions.

Dr. Ross apologized for the omission of the name of Dr. Eileen Bragg from the membership list of the Steering Committee which was included with the Report.

39. Report of the Senate Elections Committee

39.1 Library Representation on Senate

A memorandum dated November 1, 1999 was received from the Committee on Senate Elections advising that on June 3, 1999, at the request of the Vice-President (Academic) and the University Librarian, the Committee was asked to investigate the disposition of recommended changes to the Memorial University Act which would facilitate the inclusion of the Library as a constituency of Senate. In this regard the Chairman wrote to the Vice-President (Administration and Finance) and Legal Counsel asking if

amendments to the University Act as recommended by Senate at a meeting held on September 10, 1991 had been submitted to the Provincial Department of Education, and if not, if it was likely that they would be submitted in the foreseeable future. The Chairman also suggested that, if such a submission is unlikely, then the matter be referred back to the Committee on Senate Elections to investigate whether or not the Library could be deemed to be a constituency and Librarians could be deemed eligible for election under clause 54(c) of the Act which reads in part as follows:

"Members from the academic staff of the faculties and professional schools..."

Senators were asked to note that the Marine Institute is deemed to be a constituency and instructors from the Marine Institute are deemed eligible for election to Senate under this clause. Further, the Senate rules for election to the Committee on Committees and other Senate Committees contains the following note:

"Note: Until the University Act is amended to include the University Library as a constituency of Senate:

1. The term "eligible electors" as it appears in clause 2(a) shall be interpreted to include librarians.
2. The phrase "Senate constituencies" will be interpreted to include the University Library for the purpose of Clause 3. above."

In a memorandum dated 1999 07 16 the Vice-President (Administration and Finance) and Legal Counsel advised that there has not been a submission to the Department of Education requesting major revisions to the Memorial University Act and it is unlikely that any such revisions, including those noted by the University Librarian, will be requested in the next year. As a result, his assessment was that it would be appropriate to ask the Senate Elections Committee to investigate whether or not the Library could be deemed eligible for election under 54(c) of the Act. He further suggested that the note included in the Senate rules for election to the Committee on Committees and other Senate Committees should allow this to happen.

In light of this response and after careful deliberation, the Committee on Senate Elections recommends to Senate that Section II.A.(c) MEMBERSHIP OF SENATE AND ELECTIONS TO SENATE, which reads "such members from the academic staff of the Faculties and Professional Schools of the University..." be interpreted to include Librarians.

It was moved by Mr. Collins, seconded by Mr. Ellis and carried that Senate approve for submission to the Board of Regents the recommendation from the Committee on Senate Elections that Clause II.A.(c) MEMBERSHIP OF SENATE AND ELECTIONS TO SENATE, of Section 54 of the Memorial University Act be interpreted to include Librarians in order to facilitate the inclusion of the University Library as a constituency of Senate.

39.2 Committee on Committee Elections

A memorandum dated 1 December 1999 was received from the Senate Elections Committee advising that the Senate Committee on Committee elections for 1999–2000 have now been finalized. Mr. Collins, Chair of the Committee on Senate Elections advised that the election process began in May, but because of a lack of nominations in several constituencies, a by-election was held.

The following people have been elected/re-elected to the Senate Committee on Committees:

CONSTITUENCY NAME

Expiring August 31

Business Administration Dr. Sudhir Saha 2002

Education of Physical Education Dr. George Hache 2002

Sir Wilfred Grenfell College Dr. Tom Daniels 2002

Library Dr. Dorothy Milne 2001

Social Sciences or Social Work Dr. Steve Wolinetz 2000

The following have been elected to fill the three seats on the Committee on Committees which are reserved for Senators:

Medicine Dr. John Bear 2000

Nursing Dr. Maureen Laryea 2000

Social Sciences Dr. Christopher Sharpe 2000

40. Report of the Committee on Committees

A memorandum dated 7 December, 1999 was received from the Committee on Committees nominating Ms. Sue Walling to the Steering Committee on Course Evaluations.

It was moved by Dr. Sharpe, seconded by Mr. Collins and carried that Ms. Walling be appointed to the Steering Committee on Course Evaluations.

41. ITEMS FOR INFORMATION

41.1 Memorandum dated 25 October, 1999 from the Board of Regents

A memorandum dated 25 October, 1999 was received from the Board of Regents advising that at a meeting held on Thursday, 21 October 1999, the Board approved amendments to the Faculty of Science Faculty Council Constitution as submitted by Senate.

42. Remarks from the Chair – Questions/Comments from Senators

The President advised that since the last meeting of Senate he has visited several communities on the Burin Peninsula, Grand Falls/Windsor, Clarendville, the North Atlantic Refinery and Bull Arm. His observations on these visits are consistent with those of previous visits to other parts of the province, i.e. that there is strong interest in Memorial University, but a lack of familiarity with the university at it is today compared to what it was twenty years ago.

His visits also confirmed that relationships with the College of the North Atlantic are good, particularly in regard to first year

programmes and that there is a strong interest at the College in the offering of second year courses for which transfer credit might apply.

Dr. Meisen noted that while Memorial has more than 50,000 alumni worldwide, attendance by alumni at meetings is typically quite small (in the range of two to four dozen although there may be many times this number in the community). The reason given for the low attendance by alumni is that participation in an alumni meeting is likely to end in a request for funding support for the University. The President noted that many younger alumni carry heavy debt loads resulting from their years at University, and he asked Senators to engage themselves in thinking about a more balanced relationship and about what the University can do for alumni, as well as what alumni can do for Memorial.

The President commented on his continued visits to the various units of the University. He recently spent some time in the Faculty of Arts, the School of Nursing, the Faculty of Engineering and Applied Science, the School of Music, Technical Services and Human Resources. He commented that he continues to be impressed by the willingness of the women and men who serve the university to give the extra effort on behalf of the University at a time when workloads are extraordinarily high. He suggested that workloads are a matter which should receive further consideration. He also thanked all members of the faculty and staff for their time and for giving him the opportunity to share his thoughts with them.

He went on to advise that he was late arriving at the Senate meeting because he had just returned from Corner Brook where the Government had today announced that the province would contribute \$7 million towards the construction of an exhibition centre and additional student residences for the Sir Wilfred Grenfell College campus. Construction of the new exhibition centre will cost an estimated \$4 million. While the new student residences will cost \$7.5 million to construct, the province will contribute \$3 million towards that total cost, with the University contributing the remainder through bank financing and revenues it expects to derive from rental of the residence rooms. The new exhibition centre will be owned and operated by Memorial University and will provide additional exhibition, studio and workshop space that will complement and enhance existing Fine Arts facilities at Sir Wilfred

Grenfell College, and will also serve the region's needs for exhibitions, cultural development and tourism growth. The new residences will house 300 beds which will be modern apartment style residences suitable for single students or students with families. In the summer months both the residences and the gallery will be available for visiting artists.

He also commented on yesterday's announcement by Government regarding the construction of a new \$40 million facility in St. John's to house the Newfoundland Museum, the Provincial Archives of Newfoundland and Labrador and the Art Gallery of Newfoundland and Labrador noting that the availability of this facility is a major step for the arts community in general and for the University and its faculty, staff and students in particular. The President asked Senators to consider the next challenge which will be the most appropriate form of programming for a facility of this nature.

43. ADJOURNMENT

The meeting adjourned at 5:20 p.m.