Wednesday, May 18, 1983.

The Ninth regular meeting of the Senate of The University of British Columbia for the Session 1982–83 was held on Wednesday, May 18, 1983 at 8:00 p.m. in the Board and Senate Room.

Present: President D. T. Kenny (Chairman), Chancellor J. V. Clyne, Dr. R. A. Adams, Dr. G. D. Bellward, Dean D. R. Birch, Mr. W. H. Birmingham, Mrs. M. F. Bishop, Mr. T. S. Blasco, Dr. T. H. Brown, Rev. P. C. Burns, Dean P. T. Burns, Mr. G. D. Burnyeat, Dr. K. O. L. Burridge, Dr. J. J. R. Campbell, Dr. T. S. Cook, Dr. J. Dahlie, Dr. J. D. Dennison, Miss S. M. Dickinson, Mr. E. Dixon, Dr. D. Donaldson, Mr. D. B. Fields, Dean C. V. Finnegan, Mrs. E. D. Fulton, Dean J. A. F. Gardner, Dr. A. M. Hickling, Dr. H. E. Hirsch, Ms. S. J. Holmes, Mrs. P. Jones, Dr. R. F. Kelly, Dr. R. W. Kennedy, Dean W. D. Kitts, Dr. A. Kozak, Mr. J. Kulich, Dean P. A. Larkin, Dr. L. M. Lavkulich, Dr. D. S. Lirenman, Dr. D. Lupini, Dean P. A. Lusztig, Mrs. A. Macdonald, Dr. J. P. Martin, Ms. C. E. McAndrew, Mr. M. A. McCann, Mr. D. McInnes, Mr. J. F. McWilliams, Dr. W. R. Morford, Mr. P. Nishihama, Miss J. H. Querie, Miss A. H. Rahme, Dr. J. F. Richards, Dean B. E. Riedel, Mr. D. J. Rimek, Dr. G. G. E. Scudder, Dr. M. Shaw, Dr. J. G. Silver, Dr. C. E. Slonecker, Mr. J. B. Smith, Dr. R. H. T. Smith, Dr. R. A. Spencer, Dr. R. Stewart, Dr. P. R. Tennant, Miss C. L. V. Warren, Mr. B. E. S. Waugh, Dean W. A. Webber, Mr. V. G. Wellburn, Dean R. M. Will, Dr. D. LL. Williams, Dr. M. D. Willman, Dr. J. L. Wisenthal.

Observer: Mr. J. A. Banham

Messages of regret for their inability to attend were received from Dean G. S. Beagrie, Dr. D. J. Campbell, Dr. D. J. Connor, Mrs. S. Dodson, Dr. A. J. Elder, Dr. W. M. Keenlyside, Dr. A. J. McClean, Dr. P. Suedfeld, Mr. M. B. Thompson.

Minutes of previous meeting

Dr. Shaw)
Dean Finnegan) That the minutes of the Eighth regular meeting of Senate for the Session 1982–83, having been circulated, be taken as read and adopted.

Carried

Business arising from the Minutes

Student membership on the Senate Nominating Committee (P.8003)

At the previous meeting Senate was informed that there had been no response to a call for nominations for a student representative to replace Mr. Cabanas on the Senate Nominating Committee. Senate had agreed that an exception be made and that student members of Senate nominate one of their members to serve on the committee. The Secretary reported that Mr. Mark B. Thompson would replace Mr. Cabanas on the Nominating Committee.

Dr. Wisenthal gave notice of the following motion for the September meeting of Senate:

> "That the Senate Nominating Committee, in consultation with student members of Senate, review the matter of elections of students to the Nominating Committee and recommend to Senate a procedure that can be adhered to consistently in the future."

Senate membership

Declaration of vacancy

As required under section 35 (6) of the University Act, the following vacancy was declared:

Miss Kersten Brisch - student representative of the Faculty of Education

Correspondence

The Chairman reported that, as requested by Senate at the March 16, 1983 meeting, he had written to the Minister of Universities, Science and Communications urging him not to introduce changes to the University Act until the Senate and all interested parties had had the opportunity to complete consideration of proposed amendments. The Chairman read to Senate the following response from the Minister:

"Thank you for your letter of March 21, 1983 in which you advised me of the Senate resolution concerning changes to the University Act.

As you are aware, there are several levels of changes to legislation. The most common changes are those of a housekeeping nature and on these it is not the practice of government to seek formal responses from all those affected by the legislation. The other types of changes which may be of a more substantive nature may be discussed formally with those involved, but this would be decided by those charged with the development of government policy. In some cases it will not be appropriate to present draft legislation in any other forum but the Legislature.

Correspondence (continued)

"Finally, if the level of change were of a structural nature which should be addressed by a much wider audience, then a draft position paper can be circulated and/or a commission can be formed to obtain the necessary input.

Thus, while I can appreciate the intent of the Senate motion, I cannot concur with the request for the reasons mentioned above. I can also indicate that the changes which are being considered are not of a substantive nature."

Prizes, Scholarships and Bursaries

Mr. McWilliams)
Dr. Burridge)

That the new awards (listed in Appendix 'A') be accepted subject to the approval of the Board of Governors and that letters of thanks be sent to the donors.

Carried

Candidates for Degrees

Lists of candidates for degrees, as approved by the various Faculties and Schools, were made available for inspection by Senate members prior to the meeting.

Dr. Shaw)
Dean Gardner)

That the candidates for degrees and diplomas, as approved by the Faculties and Schools, be granted the degree or diploma for which they were recommended, and that the Registrar, in consultation with the Deans and the Chairman of Senate, make any necessary adjustments.

Carried

Scholarships and Awards

The Chairman reported that Edmond Dean Chow was to receive the Governor-General's Gold Medal, and that Iain David Arthy would receive the University Medal for Arts and Science.

Senate's attention was drawn to the winner of the Association of Professional Engineers Proficiency Award, Gane Ka-Shu Wong. It was stated that he had carried an incredible course load over a period of four years in the Faculty of Applied Science and had an overall average over the four years in excess of 94%.

Congratulations were extended to the other winners of medals, prizes and scholarships shown in the list circulated.

Reports of Committees of Senate

Academic Building Needs

In the absence of Dr. Runeckles, Chairman of the Committee, Dr. Burridge presented the following report:

"The Senate Academic Building Needs (SABN) Committee has the following terms of reference:

> "To recommend priorities on new academic buildings, determine how the needs for academic and non-academic buildings are related, consider such matters as the proper balance of large and small lecture rooms and laboratories, and to consider the relationship between existing physical plant and architectural planning on campus and the academic functions of the University".

The economic situation prevailing during the past year adversely affected the University's Capital Building Plan and work in support of some of the Committee's activities proposed in its 1982 report to Senate. Thus the Capital Building Plan was at a standstill with no activities undertaken with regard to the Chemistry/Physics project or on any of the projects with lower priority on the list approved by Senate in 1981. Nevertheless, the Committee recognized that changes in space needs continued to occur across campus and reviewed several proposals submitted to it.

The present report therefore addresses a range of issues, including recommendations concerning the Capital Plan, the matter of short-term solutions to acute space problems and progress made in the various tasks outlined in the Committee's 1982 report, including the question of quality of space.

Capital Building Plan

With the lack of completion of the updated campus space inventory (referred to in the May 1982 report), no campus-wide review of space needs could be undertaken during the year. Accordingly the Committee again recommends

> That the academic building priorities established in 1981 be reaffirmed, and that the University library continue to be identified as having an urgent, special need.

The Committee has no reason to believe that the circumstances which led to the adoption of the 1983 priorities have changed substantially. These priorities are:

Chemistry/Physics
Agricultural Science/Forestry
Clinical Departments (Medicine)
Dentistry
Chemical Engineering
Biochemistry
Physiology
Geophysics/Astronomy
Studio Resources Building (Arts)

Reports of Committees of Senate

Academic Building Needs (continued)

"During the year, the Committee received further submissions from the Department of Chemistry, the Faculty of Dentistry and the Department of Chemical Engineering concerning their continuing space needs, and the very difficult position each finds itself in as a result of the moratorium on new construction that is in effect at the present time. In particular, the Committee was made aware of problems such as overcrowding and inadequate ventilation which have given rise to great concern in these and other areas of campus. These problems related to quality of space are referred to again later in this report.

The Committee reviewed the academic space needs of the School of Physical Education and Recreation and recommends

That the School of Physical Education and Recreation be added to the end of the list of priorities.

This recommendation arises from the Committee's review of the Development Proposal for Recreational and Athletic Space, which in turn was the outcome of the work of the President's Committee on Recreational and Athletic Space Requirements, struck in 1981. The SABN Committee believes that the needs of the School are sufficiently acute to warrant its addition to the list of priorities at this time. The Committee also recognizes the complex interrelationships between academic and non-academic space within the School, with their implications concerning fund-raising, and therefore added the proviso that the situation be again reviewed in the event of the assemblage of funding from outside sources that would permit the non-academic components to proceed.

Non-Academic Space

The Committee was informed that funds had been released for the completion of drawings for a proposed Physical Plant Building, to replace many of the huts currently occupied by that Department, which are an ongoing problem with regard to building codes, Workers' Compensation Board and Fire Marshall requirements.

The Committee also learned that the release of planning and design funds for the construction of a Pulp and Paper Research Institute Building had been authorized by the Minister of Universities, Science and Communications, although the Committee has not been requested to review the academic implications of the project.

Temporary solutions

In spite of the lack of progress in the implementation of the Capital Plan, and in the light of operating budget restraints the Committee nevertheless recognizes that changes in the needs for academic space across campus continue to occur. Indeed, the Committee regards such changes as an essential characteristic of a dynamic University.

As a consequence, the Committee recommends

That new temporary/portable buildings be used on a limited scale on campus in order to meet special and urgent needs for academic space.

Reports of Committees of Senate

Academic Building Needs (continued)

"This recommendation is an important change in policy. The previous Committee position was that no new "temporary" structures should be located on campus until considerable progress had been made in removing or upgrading the many temporary buildings and huts already present, because of the problems associated with their maintenance and the requirements of building codes and fire inspection. However, new permanent academic space is only acquired slowly at the best of times, and at the present time its acquisition is almost at a standstill. Hence the Committee believes that some provision should exist for the use of temporary or portable buildings as the only effective means of solving special and acute space needs on a dynamic and changing campus.

In this context, the Committee recommended to the University Administration that it explore the possible acquisition of portable units owned by the Vancouver Childrens' Hospital in order to provide some relief for the acute shortage of research space in the Faculty of Dentistry. This proposal has been referred by the Board of Governors to the Ministry of Universities, Science and Communications.

Also relevant to this matter is the previous recommendation approved by Senate in 1981, that the possibility of a university resource space building to provide temporary accommodation be explored. The Committee continues to recognize the long-term validity of the concept but does not believe that such a building should be placed on the priority list at this time.

Campus Space Inventory

The updated campus space inventory is nearing completion. The inventory has been modified to reflect the Universities Council of British Columbia system of space classification, as described in the 1982 report. Its validation will permit the Committee to undertake future reviews of the campus-wide space needs on the basis of data compatible with other provincial universities.

Quality of Space

The matter of quality of academic space is of ongoing concern. This stems in part from the continued existence of the temporary buildings of past decades, and in part from changes in usage of space in permanent buildings. The diversity of building types and usages on campus makes any attempt to evaluate quality a complex task, and one which may be highly subjective. As a first approach, the Committee adopted the view that it should be possible to establish minimum acceptable standards for the quality of space to be used for various purposes, including lecture rooms, standards which would be compatible with the requirements of building codes, etc. From this base, it would then be possible to make a start on a review of the campus situation in order for considerations of quality to become incorporated into future reviews of space entitlements and needs. Accordingly the Committee recommends

> That financial resources be made available to the department of facilities planning to permit the establishment of minimum standards of quality of academic space, including lecture rooms.

Reports of Committees of Senate

Academic Building Needs (continued)

"The Committee was informed that discussions were being held between the Director of Facilities Planning and his counterparts in the other provincial universities in order to encourage comparable approaches.

The Committee was also made aware of the "horror stories" which relate to some of the existing space on campus; for example, laboratories in converted washrooms, peeling paint and falling plaster, unusable toilets, lack of privacy, the use of unsuitable construction materials leading to problems of safety and potential injury, overcrowding, etc. The Committee commends the efforts which are being made by the University to remedy these many problem areas, but believes that it has the responsibility to bring the situation to the attention of Senate. The problems are innumerable, but the establishment of minimum standards should assist in the determination of priorities for their correction.

The Committee includes lecture rooms in its recommendation to ensure that this multiple-user space is not overlooked.

Future Activities

Future activities of the Committee will in some measure be dependent upon the completion of the inventory and the establishment of standards of quality. However, the Committee anticipates continuing to receive submissions concerning academic space needs and will evaluate the requests as received. The Committee is also aware of the various routes by which approval for capital buildings may be obtained. Reference has already been made to the proposed Pulp and Paper Research Institute Building. In order to meet its responsibilities for making recommendations as to priorities for new buildings, the Committee believes that formal mechanisms are required to ensure that the academic merits of such building proposals receive appropriate scrutiny by the Committee.

The Committee therefore recommends

> That Senate require that all capital building proposals involving academic space be submitted to the Academic Building Needs Committee for review at the appropriate time.

The objective of this recommendation is to ensure that the academic implications of building proposals, regardless of the sources of funding, are reviewed in the context of the overall needs and priorities of the University, and that such reviews are undertaken early enough in the development of proposals to be constructive. The Committee believes that its views will have particular significance in situations in which only partial or no capital funding is available from outside sources and which will therefore require the allocation of funds within the Unversity's Capital Building Plan.

As a mechanism for achieving this objective, the Committee further recommends

> That the Academic Building Needs Committee be informed of the establishment of all President's ad hoc Planning and Coordinating Committees related to projects with academic implications, and that such committees maintain liaison with the Academic Building Needs Committee."

Reports of Committees of Senate

Academic Building Needs (continued)

Dr. Burridge) That the report be adopted.
Dr. Stewart)

Carried

Agenda Committee

At the December 13, 1978 meeting of Senate it was agreed that the Agenda Committee receive Faculties' statements of policies and procedures for reviews and report on them to Senate. The Agenda Committee recommended approval of the following statement of policies and procedures for reviews in the Faculty of Commerce and Business Administration:

"It is the stated policy of the Senate of The University of British Columbia to encourage the assessment by academic peers of the strength and balance, administration and related aspects of the operation of academic units within the university. Senate has established general guidelines for such reviews* and encourages Faculties to develop specific review procedures suitable to their individual circumstances. Reviews conducted by the Faculty of Commerce and Business Administration will be conducted in accordance with Senate policy and the procedures outlined below.

Reviews of academic units in the Faculty of Commerce and Business Administration will be made when a reasonable request is made by the academic staff, the responsible administrator, the Dean, the President of the University or the Senate. It is contemplated that all academic units in the Faculty will be reviewed on a periodic basis.

Each review will be conducted by a Review Committee convened by the Dean and consisting of

(a) At least one distinguished individual external to UBC and knowledgable in the area under review,

(b) At least one member of the Faculty of Commerce and Business Administration whose primary appointment is not in the academic unit under review,

(c) Such other individuals as the Dean may feel can provide critical and constructive judgments concerning the academic unit under review.

The Dean will consult the members of the unit under review in respect of the composition of the Review Committee and will provide the members of the academic unit and the Committee with terms of reference specifying in detail the purpose and scope of the review.

The Dean will establish a schedule for the Review Committee including a date for an on site visit and a date for the submission of an Evaluation Report. The Dean will, at a time appropriately in advance of the review, inform the academic unit being evaluated, the Senate and the Office of the President of The University of British Columbia of the composition of the Review Committee, their terms of reference and the proposed review schedule.

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*"Statement of Senate Policy on Reviews of Administrative Units", September 14, 1977.

Reports of Committees of Senate

Agenda Committee (continued)

"It will be the responsibility of the Dean of the Faculty of Commerce and Business Administration to provide the Review Committee with such information and data as the Committee may legitimately require for carrying out its appraisal. The academic unit under review will be responsible for providing the Committee with a statement of the unit's role and purpose, the nature and scope of its activities, the names and qualifications of its members, its plans and expectations for the future and such other information as the Committee may request and the academic unit may deem relevant. All members of the Faculty will be expected to cooperate fully in the conduct of reviews.

The Review Committee will be responsible for conducting a complete and detailed evaluation of the designated academic unit. It is contemplated that they will request and consider relevant data and conduct interviews of knowledgable and interested individuals both inside and outside the unit under review. In assessing the teaching effectiveness of an academic unit the Committee will seek the advice and assistance of Commerce Student Societies, as appropriate.

The Committee will be required to submit a written report according to the schedule proposed by the Dean and including

(a) A detailed appraisal of the strengths, weaknesses and academic balance of the reviewed unit,

(b) Evaluation and recommendations regarding the goals and plans of the unit, and

(c) Realistic recommendations concerning the status, role and prospects for the unit under review vis a vis the Faculty as a whole.

Copies of the Review Committee's report will be provided by the Dean to the unit under review, the Senate and the Office of the President of U.B.C. The Review Committee may also submit confidential comments to the Dean."

Dean Lusztig)
Dean Finnegan) That the statement of policies and procedures for reviews in the Faculty of Commerce and Business Administration be approved.

Carried

Curriculum Committee (See Appendix 'B')

Dr. Richards presented the report. The committee recommended approval of proposals from the Faculties of Applied Science, Dentistry, Education, Law, Medicine, Science and the School of Physical Education and Recreation.

Reports of Committees of Senate

Curriculum Committee (continued)

Dr. Richards)
Dr. Tennant) That the proposals of the Faculties of Applied Science, Dentistry, Education, Law, Medicine, Science and the School of Physical Education and Recreation be approved.

Dr. Richards noted that modifications had been made to some of the course descriptions contained in the proposals from the Faculty of Education.

The motion was put and carried.

Nominating Committee

Dr. Richards presented the report. The committee nominated the following persons to fill vacancies on Senate Committees:

Academic Building Needs

Mr. T. S. Blasco - replacing Mr. M. S. Dedels
Mr. P. Nishihama - replacing Mr. A. Varma

Admissions

Mr. B. A. Gilmour - replacing Mr. P. M. Hoemberg
Miss A. H. Rahme - (continuing member)

Agenda

Mr. D. J. Rimek - replacing Mr. M. A. McCann
Mr. S. Williams - replacing Mr. R. J. Summerbell

Appeals on Academic Standing

Mr. E. Dixon - replacing Mr. F. Cabanas
Mrs. P. Jones - replacing Mr. M. S. Dedels
Mr. M. A. McCann - (continuing member)

Budget

Mr. P. M. Kendall - replacing Ms. D. N. McDonnell
Miss A. H. Rahme - (continuing member)

Continuing Education

Miss S. M. Dickinson - replacing Mr. T. Mah

Curriculum

Mr. B. A. Gilmour - replacing Mr. I. C. Miller
Miss J. H. Querie - replacing Mr. W. Milosevic
Mr. B. E. S. Waugh - replacing Mr. T. K. P. Ngai

Extracurricular Activities

Mr. J. B. Smith - replacing Ms. S. M. Provost
Mr. S. Williams - replacing Mr. A. Varma

Liaison with Post-Secondary Institutions

Mr. P. Nishihama - replacing Mr. R. J. Summerbell

Reports of Committees of Senate

Nominating Committee (continued)

Student Appeals on Academic Discipline

Mr. E. Dixon	-	replacing Mr. W. Milosevic
Miss J. H. Querie	-	replacing Mr. L. P. Smyth
Mr. J. B. Smith	-	replacing Mr. G. M. Shepard

Student Awards

Miss S. M. Dickinson	-	replacing Mr. M. S. Dedels
Mr. J. B. Smith	-	replacing Mr. I. C. Miller

Tributes

Mr. M. B. Thompson	-	replacing Ms. S. M. Provost

University Library

Arts student senator	-	replacing Mr. G. M. Shepard
Mrs. P. Jones	-	(continuing member)
Mr. B. E. S. Waugh	-	replacing Mr. L. P. Smyth

Ad hoc Committees

Standards in English

Mrs. P. Jones	-	replacing Mr. T. Mah
Education student senator	-	replacing Ms. L. M. Hebert

Elections

Mr. S. Williams	-	replacing Ms. L. M. Hebert

Dr. Richards)
Dr. Scudder) That the recommendations of the Nominating Committee be approved.

Carried

Ad hoc Committee to Reassess Statement of Policy on Reviews of Administrative Units

Dr. Williams, Chairman of the committee, presented the following report:

"Preamble

At its meeting of September 14, 1977, Senate approved the policy statement on reviews of academic units put forward by the Pearse Committee. Recommendation 6 requires that Senate reassess this policy statement in the light of experience gained during a five year period of operation. This committee was charged by Senate to undertake this assessment.

Report

In the five year period 1978-1982 inclusive, four Faculties, three Schools, two Institutes and nine Departments (one twice) which have been reviewed had deposited reports with the Secretary of Senate.

Reports of Committees of Senate

Ad hoc Committee to Reassess Statement of Policy on Reviews of Administrative Units (continued)

"The committee notes with some concern that, to date, notwithstanding Recommendation 4, Faculty statements of policies and procedures for reviews have only been approved by Senate for the Faculties of Agricultural Sciences, Applied Science, Dentistry, Graduate Studies, Medicine and Science.

The committee further notes that the policy statement approved by Senate for the Faculty of Applied Science including the Schools of Architecture and Nursing refers to periodic program review by the appropriate Professional Body. While recognizing the undeniable value of such reviews, the committee respectfully suggests that other aspects of the administrative units, such as the stewardship of the Head or Director, the calibre of the research and the available facilities, or the quality of the graduate program, might also benefit from occasional review.

The committee has enquired of each unit which has been reviewed as to the necessity and benefit of the process and has asked for suggestions for improvements. While the response was not uniformly favourable, the majority certainly felt the reviews to be both necessary and capable of being beneficial. These findings confirmed the general conclusions drawn by the Pearse Committee, but the following specific comments which result from recent experience might be borne in mind for future reviews:

(a) In some instances, external experts are called in to report to the committee, but do not participate directly in the formulation of the recommendations. This is believed to lead to misrepresentation. It is also seen to be important to ensure that the unit being reviewed has an opportunity to respond to any serious criticism prior to the report being finalized.

(b) Reviews of large departmentalized faculties are probably best done on a departmental basis.

(c) Some concern was expressed that the time available to committee members to review units was too restrictive. However, given that reviews are costly in terms of departmental time and effort, it is incumbent upon the University to treat the recommendations sufficiently seriously so as to be prepared to consider implementing them.

The committee endorses Recommendations 1 to 5 of the existing Senate policy. It would delete the existing Recommendation 6 and replace it with the following recommendation:

(6) That, within two years of the completion of the review, a report on the implementation of the recommendations of the review be forwarded to the Dean or the President as appropriate and a copy lodged with the Secretary of Senate."

Dr. Williams)
Dr. Wisenthal) That the report be adopted.

Carried

Reports of Committees of Senate (continued)

Ad hoc Committee on Amendments to the University Act

In presenting the report, which had been circulated, Dr. Hickling stated that in the submissions received by the committee no strong case had been made for any radical alteration or restructuring of the Act. The general impression appeared to be that the structure was basically sound. The committee did feel, however, that because of the different size, composition, history, traditions and problems of the three universities covered by the Act, there should be built into the Act sufficient flexibility to enable each institution to deal with its own particular difficulties without having to go back each time to the legislature. The committee recognized that amendments that seemed relatively minor to U.B.C. might have an untoward impact upon one of the other universities. It was felt that any substantial amendment to the Act ought to be addressed jointly by the three universities. In considering changes to the Act there were a number of instances where the committee felt it had inadequate information or evidence on which to base a proper judgment, one being the Universities Council and its operations and the other the relationship between the University Act and the College and Institutes Act. On the basis of information that the committee did acquire, however, it was satisfied that a case could be made for a full scale review of the system of post-secondary education in the province and the relationships between the various institutions which have evolved. In conclusion, Dr. Hickling reminded Senate that it had gone on record as supporting a proposal by the University of Victoria that the Act be amended to permit part-time students to run for the office of student senator. The student representative on the committee was in favour of the amendment but wished to ensure that any representative of part-time students would be an addition to the existing number of student representatives on Senate. The remainder of the committee, however, were not in agreement with that proposal.

The following recommendations were contained in the report:

Recommendation I

That the University Act be amended

(a) to ensure that the total number of Senate members appointed or elected under Section 34(2)(I) not exeed the number of ex officio members under paragraphs (a) to (f) of Section 34(2); and

(b) to provide that the persons appointed by the Lieutenant Governor in council be selected from among persons nominated by the Alumni Association

Reports of Committees of Senate

Ad hoc Committee on Amendments to the University Act (continued)

Recommendation II

That the Senate of each university be empowered to determine by resolution how the total number of representatives elected under Section 34(2)(g) shall be distributed amongst the faculties, provided that not less than one representative be allotted to each faculty.

Recommendation III

That the words full time be deleted from Section 34 (2)(h) of the University Act, and that Senate be empowered to determine by resolution how the total number of representatives shall be distributed provided that at least one student from each faculty is elected.

Recommendation IV

That the words "for 4 months or longer" be deleted from the definition of "faculty members" in Section 1 of the University Act.

Recommendation V

That the Vice-President Academic or his equivalent be ex officio Vice Chairman of Senate.

Recommendation VI

1. That Senate be empowered, in consultation with the Alumni Association, to make rules and regulations governing
   (a) eligibility of members to vote in the election of the Chancellor and of convocation members of Senate,
   and,
   (b) the manner in which such elections shall be conducted.
2. Without restricting the generality of the foregoing such rules and regulations may provide for the levying of a fee in order to be placed on the list of voters, and for different procedures in the case of special elections for the filling of vacancies.

Recommendation VII

That the power to determine
(a) eligibility to stand for election to the Board or Senate and
(b) when a vacancy shall be deemed to have occurred
should be clearly spelled out in the Act.

Recommendation VIII

That the Act be amended to ensure that any decision by the Board to discontinue a faculty, department or program of study be made in consultation with and subject to the approval of Senate.

Recommendation IX

That Sections 86 and 87 be deleted from the Act.

Reports of Committees of Senate

Ad hoc Committee on Amendments to the University Act (continued)

Recommendation X

That before the authorization of the granting of degrees by a new university or institution the advice of the universities council be sought.

Recommendation XI

That (1) the statutory provisions dealing with the use of the name university and the granting of degrees be strengthened to prohibit the offering of courses for credit towards a degree except in accordance with powers under the University Act and The College and Institutes Act.

(2) that such provisions be enforced.

Recommendation XII

That the provisions of Sections 36(s) and 58 be amended to remove ambiguities by

(a) the addition to Section 58(1) of the words "subject in all cases to an appeal to the Standing Committee established under Section 36(s)";
(b) the deletion of subsection (3) of Section 58; and
(c) the deletion of the word "academic" from Section 36(s).

Dr. Hickling)
Dr. Cook) That the report be adopted.

In amendment:

Mr. Burnyeat)
Mr. Waugh) That Recommendation VI.2. be amended by deleting the words ". . .the levying of a fee in order to be placed on the list of voters, and for. . .".

Carried

The motion, as amended, was put and carried.

The Chairman expressed thanks and appreciation for the work done by Dr. Hickling and his committee.

Triennial elections of representatives to the Board of Governors and the Senate

The Registrar presented the following report and recommendations concerning the forthcoming elections:

BOARD OF GOVERNORS:

(i) The Registrar shall conduct the elections

(ii) Each candidate shall be nominated in writing, the nomination to be signed by SEVEN persons entitled to vote in the election of the Board of Governors and by the nominee indicating willingness to run for election, and the nominations shall be sent to the Registrar.

(iii) Each nominee shall be requested to supply a brief curriculum vitae and be permitted to include a further statement of up to 150 words which will be circulated with the ballot papers.

(iv) The elections shall be conducted by mail ballot to campus addresses.

(v) The election schedule shall be as follows:-

Faculty: (Two to be elected)

- call for nominations, Friday, October 7, 1983
- close of nominations, 4:00 p.m., Friday, October 28, 1983
- Election date, Thursday, December 1, 1983.

Non-Faculty full-time Employees: (One to be elected)

- call for nominations, Friday, October 21, 1983
- close of nominations, 4:00 p.m., Thursday, November 10, 1983
- Election date, Thursday, December 15, 1983.

(vi) The election of Faculty members to the Board of Governors will be conducted by preferential voting. Voters will be required to rank ALL candidates in order of preference. No tie rankings will be permitted. Ballots will be machine counted in the Computing Centre. The candidates elected will be the two with the lowest totals. Ballots will be considered invalid unless all candidates are ranked.

SENATE:

Election of Chancellor and Convocation Members to Senate:

(i) The Registrar shall conduct the elections

(ii) All nominations of candidates for the office of chancellor shall be signed by seven persons entitled to vote in the election.

Triennial elections of representatives to the Board of Governors and the Senate

SENATE (continued)

(iii) All nominations for membership in the senate shall be signed by three persons entitled to vote in the election.

(iv) All nominations for election of candidates for the office of chancellor and for membership in senate shall require the signature of the nominee indicating willingness to run for election.

(v) "The registrar shall forthwith send a written notice of nomination to each person nominated as a candidate for the office of chancellor and to each person nominated as a candidate for membership in the senate, with a request that the candidate forward to the registrar information respecting his degrees, the dates thereof, his occupation, offices held by him at a university or in any other organization, his other professional or business interests, and his publications." (University Act, Section 14 (3))

The registrar shall circulate only the information specified in the University Act.

(vi) The election of convocation members be scheduled and regulated as follows:

(a) that this election include the election of a chancellor

(b) that the notice of the election and call for nominations be made in the copy of UBC Reports to be placed as an insert in the 1983 fall Chronicle to be published September 15, 1983.

(c) that the close of nominations for chancellor and for convocation membership in the senate be 4:00 p.m. on Monday, November 7, 1983.

(d) that the election date be Thursday, March 8, 1984.

(vii) In the event that after the close of nominations but before the election date it is found that a nominee for the office of chancellor could not serve if elected, the registrar be authorized, if so instructed by the chairman of senate, to delay the election and issue another call for nominations.

(viii) The voting papers be designed to permit machine tabulation of the election results.

(ix) The results of the election, in accordance with Section 16 of the University Act, will be reported to the senate at its next regular meeting, namely March 21, 1984.

(x) Replacement procedures for Convocation representatives to Senate - replacements will be appointed on the basis of the recommendation of the remaining Convocation representatives to Senate.

(Approved by Senate, April 21, 1976)

Triennial elections of representatives to the Board of Governors and the Senate

SENATE (continued)

Election of Faculty members at-Large (Ten to be elected)

(i) The Registrar shall conduct the election

(ii) Each candidate shall be nominated in writing, the nominations to be signed by THREE 'faculty members'

(iii) The election schedule shall be as follows:

- call for nominations, Tuesday, January 24, 1984
- close of nominations, 4:00 p.m., Tuesday, February 14, 1984
- Election date, Thursday, March 15, 1984

(iv) Replacement procedures - "a vacancy in this category shall be filled by a candidate in the . . . election of members at-Large. Where no candidate is willing or able to serve as a replacement, a special election to fill that vacancy will be held."

"The Registrar shall invite the candidate who received the highest number of votes in the . . . general election . . . to fill the vacancy. If that candidate declines . . . the candidate with the next highest number of votes shall be invited to fill the vacancy, and so on until a willing candidate is found."

"An individual who has vacated a position as a representative of the faculty members at-Large is not thereby disqualified from filling a vacancy in accordance with the above procedures."

(Approved by Senate May 25, 1977)

Elections of Faculty Members from Individual Faculties (Two from each Faculty)

Individual Faculties will make their own decisions on the procedures and timing of the election of their two representatives to serve on Senate on the understanding that all elections be completed by March 15, 1984. Such elections may be held at Faculty meetings subject to the terms of the University Act (i.e. those participating in the elections must be 'faculty members' as defined in the "General Provisions" section of this submission on Page 6.)

With the election date of Thursday, December 1, 1983, for the election of Faculty representatives to the Board of Governors, and the election date of Thursday, March 15, 1984, for the election of Faculty members at–Large to Senate, the following schedule is suggested for individual faculties. This schedule would enable any eligible faculty member who wished to do so to run as a candidate in all of the elections involving faculty members at–Large.

Triennial elections of representatives to the Board of Governors and the Senate

SENATE (continued)

Faculty of Graduate Studies

Call for nominations:	Tuesday, November 8, 1983
Close of nominations:	Tuesday, November 29, 1983
Election date:	Tuesday, January 10, 1984

Other faculties requiring an election by mailed ballot:

Call for nominations:	Thursday, December 15, 1983
Close of nominations:	Thursday, January 12, 1984
Election date:	Wednesday, February 15, 1984

(Replacement procedures - Nomination and election shall be conducted in accordance with established Faculty procedure. Where such established procedures do not exist then nominations shall be called for either before or on the floor of a meeting of the Faculty concerned and voting shall be either by show of hands or by balloting at the meeting. It was agreed that the Registrar's Office would not be involved.)

(Approved by Senate April 21, 1976)

Faculties who want to have runners-up used as replacements in the event of a vacancy dtated clearly in the call for nominations.

Faculties will be asked to advise the Registrar of their decisions.

Election of representative of the full-time Professional Librarians

(i) The Registrar shall conduct the election

(ii) Each candidate shall be nominated in writing, the nominations to be signed by THREE professional librarians employed by the University who have been employed in that capacity for a period of four months or longer, and by the nominee indicating willingness to run for election.

(iii) The election schedule shall be as follows:

- call for nominations, Monday, January 9, 1984
- close of nominations, 4:00 p.m., Friday, January 27, 1984
- Election date, Monday, February 27, 1984.

Triennial elections of representatives to the Board of Governors and the Senate (continued)

General provisions

Eligibility

'Faculty members' eligible to participate in elections of representatives to serve on the Board of Governors and the Senate shall be only those persons who, at the time the nominations are called, hold full-time Board appointments (which they have held for four months or longer) at the ranks of lecturer, instructor, assistant professor, associate professor or professor.

Nominations

In some elections the Registrar publishes the names of the nominators in the information provided to electors. Where more signatures than are required are submitted in support of a particular candidate, the Registrar will publish only the minimum number of names required. Only one nomination will be accepted for each candidate in any one election.

Results

Where appropriate results will be machine counted.

Terms of office (three-years)

Unless otherwise determined by the Board of Governors, the Chancellor shall take office on June 25, 1984 and the installation ceremony will take place on Friday, June 1, 1984.

All other members of the Board of Governors will take office on February 1, 1984.

Members of Senate will take office on September 1, 1984.

The Registrar pointed out that the only change in the recommendations was that members of Senate would take office on September 1, (1984) instead of April 1 as in previous years and that current members would therefore remain on Senate and continue to serve on committees until the new members take office.

Dean Webber)
Dean Finnegan) That the recommendations of the Registrar concerning elections be approved.

Carried

Faculty of Commerce and Business Administration

Proposal to establish The Alumni Chair in Marketing

It was stated in the material circulated that an individual donor, who preferred to remain anonymous, had provided an endowment to establish a Chair in Marketing. Smaller individual donations from Commerce graduates had been added to complete the funding. The objective of the gift is to help support research activities within the Faculty of Commerce and Business Administration at U.B.C.

Dean Lusztig)
Mr. Fields) That the proposal to establish The Alumni Chair in Marketing be approved.

Carried

Faculty of Graduate Studies

Ocean Studies Council - proposed Calendar statement

It was stated in the material circulated that scholars at U.B.C. concerned with various aspects of ocean research have concluded that there exists a need for some form of inter-disciplinary ocean studies organization to facilitate inter-disciplinary research and to provide a focal point for contact with interested groups off-campus. The need for such organization has been made more pressing by the growth of research opportunities arising from the impact of the Third United Nations Conference on the Law of the Sea and the widespread extension of maritime jurisdiction by states out to 200 miles from their coasts. Other universities, in particular Dalhousie in Canada, have already established successful ocean study programs or institutes.

A recent meeting of ocean specialists on campus confirmed the need for such an organization. Representatives from the Faculties of Commerce, Forestry, Graduate Studies, and Law; from the Departments of Bio-Resource Engineering, Economics, Geography, Mathematics, Oceanography, Political Science and Slavonic Studies; and from the following institutes, namely Animal Resource Ecology, Asian Research, International Relations and Westwater Research, were in attendance or expressed by letter an interest in taking further steps in this direction. An ad hoc Committee was established to promote close relations among ocean specialists on campus and to explore the formalization of those relations.

The ad hoc Committee concluded that contacts with groups off-campus, at other universities or in government, could best be facilitated by establishing a body to be designated the Ocean Studies Council. The Council would have representatives from the aforementioned faculties, departments and institutes, all of which have endorsed the proposal. The Council would have the following, roles:

1. to promote inter-disciplinary research on the oceans at U.B.C.
2. to facilitate contacts between scholars at U.B.C. and other universities government bodies, international agencies and other interested groups off-campus;
3. to develop inter-disciplinary faculty and graduate student seminars on ocean topics.

Faculty of Graduate Studies

Ocean Studies Council - proposed Calendar statement (continued)

Calendar Statement

The Ocean Studies Council consists of faculty members from a number of disciplines with research interests in various aspects of the oceans. Representatives from the Faculties of Commerce, Forestry, Graduate Studies, and Law; from the Departments of Bio-Resource Engineering, Economics, Geography, Mathematics, Oceanography, Political Science and Slavonic Studies; and from the following institutes: Animal Resource Ecology, Asian Research, International Relations and Westwater Research; and other groups with related interests constitute the Council.

The Council has as its primary function the promotion of inter-disciplinary research on ocean matters within the University. The Council serves as well to facilitate contacts between scholars at U.B.C. concerned with ocean research and other universities, government bodies, international agencies and other interested groups off-campus. While the Council has no role in teaching or the development of curricula it does act to develop inter-disciplinary seminars on ocean topics for both faculty and graduate students.

Dean Larkin)
Dean Burns) That the proposed Calendar statement concerning the Ocean Studies Council be approved.

It was agreed that Physical Education and Recreation and Anthropology and Sociology would be added to the list of representatives.

The motion was put and carried.

Confidentiality of Teaching Evaluations

The following proposals concerning the confidentiality of teaching evaluations had been circulated:

On March 22, 1978 the Senate Committee on Teaching Evaluation presented a report to Senate setting out guidelines for the administration of teaching evaluations at UBC. Senate adopted the following recommendations:

1. That systematic, objective and cumulative evaluations should be obtained for all faculty members and instructors and for all undergraduate courses.

2. That such evaluation include teaching evaluation, and that teaching evaluation be considered in reappointment, promotion and tenure decisions.

3. That the timing and form of such evaluations be decided by each Faculty.

4. That the evaluation instruments be developed and administered by the Faculties and/or Departments concerned.

Confidentiality of Teaching Evaluations (continued)

Last November, Student Senate Caucus conducted an informal survey of evaluation procedures. There was an excellent response and many departments requested a copy of the findings as their teaching evaluation procedures were currently under review. The survey showed that Senate guidelines were, generally, adhered to and that most Faculties, Schools and Departments considered teaching evaluations to be a major consideration in decisions on tenure, promotion and salary increment.

The survey revealed that most Faculties recognized that confidentiality is a prerequisite for honest evaluation. This is currently achieved by:

a. A class representative collecting the evaluations or the professor sealing the completed forms in front of the class.

b. Anonymous computer cards.

c. In small classes comments may be typed by office staff to avoid recognition of distinctive handwriting.

As Senate has no policy on the confidentiality of teaching evaluations, the Student Senate Caucus makes the following recommendations:

(i) That teaching evaluation forms should not require students to provide their name, student number or gradepoint average. (This does not preclude information such as Year, Faculty, Major, 1st/2nd/pass/fail)

(ii) That teaching evaluations bear a reminder that students may wish to print their remarks in order to avoid recognition of their handwriting.

(iii) That professors not have access to completed evaluation forms until course marks have been submitted.

Mrs. Jones)
Mrs. Bishop) That recommendations (i) (ii) and (iii) be approved.

Dr. Spencer pointed out that the effect of recommendation (iii) would be to reduce very considerably the interest that many instructors take in the comments received through teaching evaluation because students would have finished the course without the instructor having had the opportunity to rectify faults or follow up on suggestions.

In amendment:

Dr. Spencer)
Mr. Fields) That recommendation (iii) be deleted.

Carried

Recommendations (i) and (ii) were put and carried.

Report from Vancouver School of Theology

The annual report of the Vancouver School of Theology was presented for information. It was stated in the report that 109 students were registered for degree courses in the Winter Session. Approximately another 25 students were engaged in other parallel studies, although not registered. It was further stated that over 60% of the enrolled students at Vancouver School of Theology are women and that the need for women faculty is a pressing need for the School and a difficult one to solve in Canada at the present time. 93 students holding a first Theological degree were enrolled in advanced study in the Summer School courses in 1982. 328 clergy were involved in the School's continuing professsional education programs in 1982/83. It was also stated that in May 1983 the following degrees were conferred:

Master of Theology	2
Master of Divinity	20
Master of Theological Studies	1
Bachelor of Theology	3

Dr. Martin stated that the Rev. Arthur Van Seters will take office as Principal of the Vancouver School of Theology on August 1, 1983.

The Chairman paid tribute to Dr. Martin who was attending his last Senate meeting as Principal of the Vancouver School of Theology.

Other business

Undergraduate scholarships

Dean Lusztig stated that it had come to his attention that changes had been made in the allocation of undergraduate scholarships without reference to the Senate and that he intended to give notice of motion on this matter for discussion at the September meeting of Senate.

Associate Registrar

The Chairman welcomed to the University Mr. Alan McMillan, the new Associate Registrar.

Members of Senate

The Chairman paid tribute to Dr. J.J.R. Campbell, Dean J.A.F. Gardner and Vice-President Michael Shaw who were attending their last Senate meeting.

President D. T. Kenny

Dr. Shaw and Dean Larkin paid tribute to President Kenny who was attending his last Senate meeting and would be retiring as President of the University at the end of June.

Wednesday, May 18, 1983.

Report of the Tributes Committee (in camera)

Tribute to Dr. John Addison Ross

Dean Larkin presented the following tribute to Dr. John Addison Ross on the occasion of his retirement:

JOHN ADDISON ROSS, B.Div., M.A., Ph.D., will retire on 31 October 1983 after 26 years of dedicated service as Dean of St. Andrew's Hall. He was called to serve as Dean in 1957 when St. Andrew's Hall was first established as an affiliated Theological College of the University of British Columbia.

Dr. Ross was the first Presbyterian Chaplain to be designated at any university in Canada. He was also Chaplain to the Health Sciences Centre Hospital, liaison person between the theological colleges and the university Extension Department from 1957-1962, Sessional Lecturer in the Faculties of Arts and Applied Science between 1972–1975, and co–founder and active participant in the General Systems Forum since 1975. As a Minister of the Presbyterian Church in Canada Dr. Ross has served on numerous Boards and Courts of the Church.

The University community will remember with gratitude Dr. Ross's warm, constructive, Christian influence on faculty, staff and students throughout the past 26 years, and his untiring efforts to provide a Christian dimension to living for an entire generation of students at St. Andrew's Hall. In all these endeavours, he has been supported most competently by his wife, Kay.

Members of Senate pay tribute to the service of Dr. Ross to the University, and wish Dr. and Mrs. Ross many happy years in retirement.

Dean Larkin)
Dr. Slonecker) That the tribute to Dr. John Addison Ross be spread on the minutes of Senate and that a copy be sent to Dr. and Mrs. Ross.

Carried

Honorary Degree - Special Convocation October, 1983

The Tributes Committee recommended that a special convocation be held at the Vancouver Law Courts for the purpose of conferring an honorary degree on John J. Robinette, Q.C. a distinguished Canadian legal counsel and advocate.

Dean Larkin) That the recommendation of the Tributes
Chancellor Clyne) Committee be approved.

Tributes Committee

Honorary Degree - Special Convocation October, 1983 (continued)

In reply to a query concerning the principle of holding a special Convocation for one person, the Chairman stated that this was not the first occasion that a special convocation had been held and that although he agreed it should not happen too frequently there were special occasions where exceptions should be made.

The motion was put and carried.

The meeing adjourned at 9:45 p.m.

The next regular meeting of Senate will be held on Wednesday, September 14, 1983.

Secretary

Confirmed,

Chairman

APPENDIX 'A'

New awards recommended to Senate

Jan de Bruyn Prize - In honour of the work of Jan de Bruyn in developing the English Department's scholarship program, a prize of $150 is offered to the most promising undergraduate student in 17th-Century English literary studies, as at present covered by the courses English 370 and 375. This prize has been made available by donations from Professor de Bruyn's friends, students and colleagues in the Department of English. (This award will be made in the 1983/84 Winter Session.)

Lambda Kappa Sigma Scholarship - An annual scholarship in the amount of approximately $100, endowed by the Alpha Lambda Chapter of Lambda Kappa Sigma Fraternity, is available for a member of Lambda Kappa Sigma who is continuing her studies in the Faculty of Pharmaceutical Sciences. Selection will be based primarily on academic achievement, however, student activities and service within the Fraternity may also be considered. (Please note that this award will be made available in the 1984/85 Winter Session.)

William Nemetz Bursary - A bursary in the amount of $500 has been made available to commemorate the 80th birthday in 1983 of William Nemetz, by his son Arnold and family. The award will be offered in alternate academic years commencing in 1983/84 to a student demonstrating financial need.

Roy Nodwell Prize - A prize in the amount of $300 has been established by friends and former graduates of Engineering Physics on the occasion of Roy Nodwell's retirement from the Department in 1983. The prize will be awarded to the student submitting the APSC 459 project which exhibits a high professional standard and has the potential for introducing an innovative technology. To be considered, projects must be submitted to the Director of Engineering Physics no later than April 15. The award will be made on the recommendation of a selection committee consisting of Roy Nodwell or a member nominated by him, one former Engineering Physics graduate, and one member appointed by the Director of Engineering Physics. (Please note that the award has already been advertised, subject to the approval of Senate. Therefore, the first award can be made for the 1982/83 academic session.)

Thompson Berwick Pratt & Partners Scholarship - A scholarship in the amount of $500 is provided annually by the firm of Thompson Berwick Pratt & Partners to a student registered in the School of Architecture and entering the second or third year of the program. Selection of the winner will be made within the context of excellence in responsible architectural design. The recipient will be required to maintain enrolment in a full program of studies during the year in which the award is held. The scholarship is made on the recommendation of the School of Architecture.

Marion T. Ricker Scholarship - A scholarship in the amount of $300 has been made available by Marion T. Ricker, R.N., B.A.Sc. 1983. The award will be made on the recommendation of the Director of the School of Nursing, to a registered nurse who is entering or continuing a program leading to the degree of B.S.N. Preference will be given to a mature student. (This award will be made available in the 1983/84 Winter Session.)

Harold James Russell Scholarship in Rehabilitation Medicine - Scholarships to a total of $3,000 have been made available by a bequest from the late Harold James Russell. The awards will be made to students in the School of Rehabilitation Medicine, on the recommendation of the School. (This award will be made available in the 1983/84 Winter Session.)

APPENDIX 'B'

Course and curriculum proposals

FACULTY OF APPLIED SCIENCE

Mechanical Engineering

Course changes	MECH 441	split into two courses, now:	
	MECH 441	(1½)	Computer Aided Ship Design
	MECH 442	(1½)	Ship Structures and Vibration

FACULTY OF DENTISTRY

Oral Biology

Course change	ORBI 430	-	change in description and units (now 1 unit)

FACULTY OF EDUCATION

Undergraduate Studies Office

Course change	EDUC 487	-	change in title and description

Curriculum and Instructional Studies

Change in program description: (iv)	Business Education Concentration and Major First and Second Years: Computer Science 101, Economics 100, Mathematics 100 or 140 or 111. Second year: Commerce 457 and 458.	

Language Education

Changes	English Education 340	-	change in description and prerequisite
	480	-	change in title and description
New courses	Modern Languages Education 340	(1½)	Using Canadian Literature in the Classroom
	480	(1½/3)c	Advanced Studies in Language Education
	489	(1½)	Applied Linguistics for Teachers of French

FACULTY OF LAW

Course change	LAW 422	-	change in number, description, units and hours (previously 494)

APPENDIX 'B' (continued)

FACULTY OF MEDICINE

Family Practice

Course changes FMPR 480, 481 - change in title and description

Health Care and Epidemiology

Deletion HCEP 426

Paediatrics

Course changes PAED 475 - change in description
701 - change in title

Deletions PAED 709, 710

SCHOOL OF PHYSICAL EDUCATION AND RECREATION

New course PHED 473 (1½) Human Biomechanical Analysis

FACULTY OF SCIENCE

Change Calendar statement on Faculty Requirements for B.Sc. (Graduation Requirements) to:

(c) At least 9 units must be Arts courses (i.e., English 100 and at least 6 other units in Arts courses). Some technique courses offered by the Faculty of Arts (especially in Fine Arts, Home Economics and Music) are not applicable. Only the following Geography courses can be used to fulfill the Arts requirement of the Faculty of Science: GEOG 103, 200, 201, 320, 324, 325, 327, 328, 337, 345, 350, 351, 352, 357, 360, 361, 362, 363, 390, 396, 422, 423, 424, 425, 427, 481, 483, 484, 491, 493, 494, 495, 497, 498, 499. The following Geography courses may be used as free electives, with due regard to prerequisites. They may not be used for either Science or Arts 'designated' credit: GEOG 102, 315, 317, 366, 370, 371, 372, 373, 374, 375, 415, 417, 418, 437, 444, 445, 450, 457, 460, 461, 464, 466, 467, 470, 490.

Biology

New course BIOL 434 (1½) Population Genetics

Computer Science

Changes CPSC 312, 319, 322, 419, 430 - change in prerequisites

Geography

Program changes: Major in Physical Geography - change Third Year to:
Geography 366 and 370 or 372 (3)
3 units from Geography 315, 317, 345, 415, 417, 418 (3)

APPENDIX 'B'

FACULTY OF SCIENCE

Geography (continued)

Honours - Focus Climatology/Meteorology
Combined Honours - Geography and Geology
Focus - Geomorphology
change Third Year to: Geography 366, 374 (3)

Geological Sciences

New courses	GEOL 368 (1½)	Mineral Exploration and Mining Geology
	403 (1½)	Theoretical Petrology
Change	GEOL 305 –	change in number, description and prerequisites (now 400)

Oceanography

Change	OCGY 410 -	change in units, hours, prerequisites

Program change: Combined Honours in Oceanography and Geology - change to:

First Year		Second Year	
Chemistry 110 or 120	(3)	Geology 204	(3)
English 100	(3)	Geology 210	(3)
Mathematics 100 and 101 (or 120 and 121)	(3)	Mathematics 105	(1.5)
Physics 110, 115 or 120	(3)	Two of Math 200, 221, Computer Sci. 101	(3)
Geology 125	(1.5)	Chemistry 208	(3)
Geophysics 120	(1.5)	Electives[1]	(4.5)
	(15)		(18)

Third Year		Fourth Year	
Oceanography 300	(1)	Oceanography 401 or 405	(1)
Oceanography 301	(1)	Oceanography 408	(1)
Oceanography 302	(1)	Oceanography 449 or Geology 449	(3)
Geology 301	(1.5)	Oceanography elective	(1.5)
Geology 302	(1.5)	Geology electives	(4.5)
Geology 306	(1.5)	Arts elective	(3)
Geology 326	(1.5)	Science elective[2]	(3)
Geology 321	(1.5)		
Geology 426	(1.5)		
Arts Elective	(3)		
Science Elective[2]	(1)		
	(16)		(17)

[1]Recommended Biology 101 or 102 or Geophysics 221.

[2]Science electives may include additional Oceanography courses in third and fourth years.

Microbiology

Deletions MICB 509, 519