

Wednesday, December 18, 1974.

The Fourth regular meeting of the Senate of The University of British Columbia for the Session 1974-75 was held on Wednesday, December 18, 1974 at 8.00 p.m. in the Board and Senate Room, Administration Building.

Present: President W. H. Gage (Chairman), Dean J. H. M. Andrews, Dean D. V. Bates, Dr. L. L. Bongie, Dr. C. B. Bourne, Dr. C. A. Brockley, Dr. T. H. Brown, Rev. P. C. Burns, Mr. R. J. Carter, Dr. S. D. Cavers, Dr. R. M. Clark, Dean I. McT. Cowan, Dr. R. Daniels, Dr. C. G. David, Ms. B. G. Errington, Mrs. F. Field, Dr. C. V. Finnegan, The Hon. E. D. Fulton, Dean E. M. Fulton, Mr. G. S. Funt, Dean J. A. F. Gardner, Dr. W. C. Gibson, Dr. D. F. Hardwick, Dr. T. D. Heaven, Dr. B. Howard, Miss W. J. Hudson, Dr. F. R. C. Johnstone, Dr. J. M. Kennedy, Dr. L. Kraitz, Mrs. W. T. Lane, Dr. D. J. MacDougall, Mr. D. B. Mackay, Dean A. J. McClean, Dr. R. E. McConnell, Dr. C. A. McDowell, Dr. M. F. McGregor, Rev. J. P. Martin, Mr. A. M. Moore, Ms. C. M. Moriarty, Mr. R. F. Osborne, Dr. R. A. Restrepo, Dean B. E. Riedel, Dr. G. Rosenbluth, Dr. I. S. Ross, Dr. A. D. Scott, Dean M. Shaw, Ms. S. H. M. Smail, Mrs. C. A. Soong, Dr. J. R. Stein, Mr. G. A. Thom, Mr. B. B. Trevino, Dr. M. Uprichard, Dean G. M. Volkoff, Dr. W. A. Webber, Dr. R. L. White, Acting Dean R. M. Will.

Observer: Mr. J. A. Banham

Messages of regret for their inability to attend were received from Chancellor N. T. Nemetz, Mrs. M. F. Angus, Mr. R. M. Buzza, Mr. C. P. Cole, Dr. N. Epstein, Dean W. D. Finn, Dr. J. G. Foulks, Dr. S. M. Friedman, Dr. R. F. Gray, Mr. I. F. Greenwood, Dr. J. M. Houston, Dr. W. D. Kitts, Mrs. J. MacD. Lecky, Dean S. W. Leung, Mr. T. B. Lindsay, Dr. P. A. Lusztig, Dr. G. V. Parkinson, Mr. P. S. Plant, Dr. K. S. Stockholder, Mr. B. Stuart-Stubbs, Mr. F. C. Walden, Mr. D. R. Williams.

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The Chairman welcomed to Senate Rev. Paul C. Burns who had replaced Rev. R. W. Finn as Principal of St. Mark's College and as representative of the college on Senate.

Congratulations were offered to Ms. B. Gene Errington on her appointment by the Provincial Government as Status of Women Co-ordinator for International Women's Year 1975.

Congratulations were also extended to the two faculty members elected to serve on the Board of Governors, Dr. G. Rosenbluth and Dr. W. A. Webber, and to the two student members Mr. Svend J. Robinson and Mr. Richard H. Murray.

Minutes of the Previous Meeting

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| Dr. Hardwick) | <i>That the Minutes of the Third regular</i> |
| Dr. McGregor) | <i>meeting of Senate for the Session 1974-75</i> |
| | <i>having been circulated, be taken as read</i> |
| | <i>and adopted.</i> |

Carried

Business arising from the Minutes

Advisory Committee for the selection of Deans (P.6243-5)

Senate was notified that the following resolution was passed by the Board of Governors at its meeting of December 3, 1974:-

"That, as recommended by Senate at its meeting of November 13, 1974 the proposed Advisory Committee for the Selection of Deans be adopted only for the selection of a Dean of Arts, to succeed the present Dean of Arts; and that President Walter H. Gage be and is hereby authorized to appoint an ad hoc committee of the Board to meet with an ad hoc committee of Senate to consider procedures for the establishment of future advisory committees for the selection of deans; these procedures to be available by April 1, 1975."

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Business arising from the MinutesAdvisory Committee for the selection of Deans (continued)

In order to save time the Agenda Committee had requested the Nominating Committee to submit recommendations for membership of the Senate ad hoc Committee. The Nominating Committee recommended the following membership:

Dr. C. B. Bourne
Dr. C. V. Finnegan
Miss A. J. Francis
Acting Dean R. M. Will

Dr. McGregor) *That the recommendations of the*
Dean Volkoff) *Nominating Committee be approved.*

Carried

Examination Schedules (P.6246)

The following statement concerning examination schedules had been circulated for information: -

"There was discussion at the meeting of Senate held November 13, 1974 (Minutes, P.6246) of the desirability of adjusting the examination timetable to avoid multiple exams on the same day for as many students as possible. The use of a computer to equalize spacings was suggested.

Steps have been taken by the Systems Services Office and the Computing Centre to experiment with improved methods before the examinations of April, 1975. One or more algorithms will be tried on the December, 1974 data, and the results presented to the Registrar's Office for a decision on their merits.

These attempts are unlikely to be greeted with universal acclaim. For one thing, the greater the success in equal spacing of examinations, the more students will find their last exam in the final day or two of the exam period preventing an early departure for vacation employment or travel. Also, there is a conflict with the need to schedule large classes fairly early to give faculty

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Examination Schedules (continued)

members reasonable opportunities for marking before the Registrar's deadlines. Further, there are special problems with exams that require special facilities, or for which a faculty member has requested avoidance of certain dates.

In short, the criteria for optimizing the timetable have not been fully specified by the University."

From the Board of Governors

Student representation on the Advisory Committee for the selection of a Dean of Arts

The following resolution was passed by the Board of Governors at its meeting of December 3, 1974:-

"That, subject to approval by Senate, the Board of Governors accepts the request conveyed in a letter from the Acting President of the Arts Undergraduate Society, that the two student representatives on the Advisory Committee for the Selection of a Dean of Arts, be nominated from and elected by the registered students in the Faculty of Arts and graduate students associated with the Faculty of Arts, the nominations and elections to be conducted by the Arts Undergraduate Society in accordance with procedures considered satisfactory by the Registrar."

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| Dr. Cavers |) | <i>That the resolution of the Board of</i> |
| Dean Gardner |) | <i>Governors be approved.</i> |

Carried

Notification of approval in principle of Senate recommendations - subject, where applicable, to the proviso that none of the programs be implemented without formal reference to the President and the formal agreement of the President; and that the Deans and Heads concerned with new programs be asked to indicate the space requirements, if any, of such new programs.

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From the Board of GovernorsNotification of approval in principle of Senate recommendations
(continued)

- (i) New courses and course changes in Botany, Biology, Biochemistry and Forestry, recommended by the Faculty of Graduate Studies. (P. 6252)
- (ii) Revision in the Calendar statement for requirements for the LL.B. degree recommended by the Faculty of Law. (P. 6237-8)
- (iii) Deletion of the Combined Honours B.Sc./M.D. or D.M.D. Program in Physiology, recommended by the Faculty of Medicine. (P. 6238)

Committee on Prizes, Scholarships and Bursaries

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| Dean Riedel) | <i>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.</i> |
| Dean Cowan) | |

CarriedReports of Committees of SenateCurriculum Committee

Dr. Hardwick presented the report on proposals referred to the committee.

Faculty of Agricultural Sciences (See Appendix 'B')

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|----------------|---|
| Dr. Hardwick) | <i>That new courses and course changes recommended by the Faculty of Agricultural Sciences be approved.</i> |
| Dean Shaw) | |

Attention was drawn to the fact that Plant Science 324 and 325 were comparable to Botany 330, and that Plant Science 331

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Reports of Committees of SenateCurriculum CommitteeFaculty of Agricultural Sciences (continued)

was comparable to Zoology 311. Dean Shaw agreed to a suggestion that the descriptions of these courses include a sentence stating that credit would be granted for only one of these courses and not for both.

The motion was put and carried.

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| Dr. Hardwick |) | <i>That the calendar changes recommended</i> |
| Dean Shaw |) | <i>by the Faculty of Agricultural Sciences</i> |
| | | <i>be approved.</i> |

It was pointed out that in the courses listed under Animal Science Physics 105 should read Physics 145.

The motion was put and carried.

School of Architecture (See Appendix 'B')

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|--------------|---|---|
| Dr. Hardwick |) | <i>That the course changes recommended</i> |
| Mr. Osborne |) | <i>by the School of Architecture be approved.</i> |

Carried

Faculty of Education (See Appendix 'B')

| | | |
|--------------|---|--|
| Dr. Hardwick |) | <i>That new courses, course and curriculum</i> |
| Dean Andrews |) | <i>changes recommended by the Faculty of</i> |
| | | <i>Education be approved.</i> |

Senate concurred with the recommendation of the committee that approval of the revision in the unit value of Education 437 be withheld pending clarification.

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Reports of Committees of SenateCurriculum CommitteeFaculty of Education (continued)The motion was put and carriedFaculty of Forestry (See Appendix 'B')

Dr. Hardwick) *That new courses and course changes*
Dean Gardner) *recommended by the Faculty of Forestry*
 be approved.

CarriedFaculty of Graduate Studies (See Appendix 'B')

Dr. Hardwick) *That new courses in Physiology*
Dean Cowan) *recommended by the Faculty of*
 Graduate Studies be approved.

CarriedFaculty of Medicine

The following outline of proposed curriculum changes for
implementation in the 1975-76 Academic Year was submitted by
the Faculty of Medicine:

First Year

1. To allow for earlier introduction of clinical material a start of Pathology and Microbiology in second phase of second term of First Year, Pathology to conclude at the end of the first term of Second Year.
2. To allow for the earlier introduction of Pathology and Microbiology, Anatomy and Biochemistry to conclude at the end of the first phase of second term of First Year. The final examinations in Anatomy and Biochemistry will be at that time.

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Reports of Committees of SenateCurriculum CommitteeFaculty of MedicineFirst Year (continued)

3. To accomplish this it is necessary to lengthen the second term of First Year by three weeks, and divide it into two phases of nine weeks each.
4. Physiology will continue to be taught throughout First Year.
5. Though the Committee recommends that Biochemistry 410 be a prerequisite and be replaced by an appropriate Biochemistry course for medical and dental students, it feels it would be inappropriate to implement this proposal at a time when a head of Biochemistry has not been appointed. They propose that Biochemistry 410 continue for a further year, and 411 and 412 continue to be offered as electives.
6. Behavioural Sciences. The proposals allow the introduction of such a course within the first term of First Year, but are not dependent upon this. Firm proposals are not yet able to be brought to Faculty.

Second Year

1. The present formal pre-medical Second Year teaching will be concluded by the end of first term.
2. The second term will now consist largely of clinical work (bedside clinics, wardwork and clinical (systems) lectures) and will continue into the two terms of Third Year.
3. The clinical aspects of Pharmacology (e.g. Therapeutics) and Microbiology will be allotted time within the clinical (systems) lectures as appropriate.

Third Year

1. Present format will continue in first term.

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Reports of Committees of SenateCurriculum CommitteeFaculty of MedicineThird Year (continued)

2. In the second term, three afternoons a week will be set aside for electives in basic science areas. On the other two afternoons wardwork will include attendance at specialty clinics, e.g. V.D., Radiotherapy, Arthritis, T.B., Rehabilitation.

Fourth Year

Clinical Clerkship should be 52 weeks.

Independent Study

To encourage habits of self education, up to one third of the time is made available for independent study and electives. The arrangement for this time varies, in each year, being formally identified in First and Second Year, but in Third Year one afternoon per week is unscheduled and in addition, wardwork usually does not occupy all the scheduled time.

It is recommended that formal teaching on Saturdays be abandoned.

Feasibility of Proposals

The proposals have been examined by the subcommittees for First and Second Years, and sample timetables have been prepared and approved. In Third Year the proposals have been approved in principle, but the detailed scheduling of lectures and clinics will be considered by the Third Year Committee. The arrangements for the basic science electives will require consideration by representatives of the basic science departments.

The Clinical Clerk Subcommittee will examine proposals for the allocation of time within the Clerkship.

Co-ordination with Faculty of Dentistry

The proposals have been examined by the Faculty of Dentistry and are acceptable.

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Reports of Committees of SenateCurriculum CommitteeFaculty of Medicine (continued)Co-ordination with other U.B.C. Timetables

Wherever possible, the existing timetabling has been retained to avoid difficult re-scheduling.

Dr. Hardwick)
Dr. Johnstone) *That the revised curriculum of the
Faculty of Medicine be approved in
principle. Specific Senate approval
will be required for implementation of:-*

- a) Behavioural Science course (First Year)*
- b) Biochemistry course (First Year)*
- c) Basic Science electives (Third Year)*
- d) Specialty Clinics and courses
(Third Year)*

In reply to a request for information on the proposed Behavioural Science course Dean Bates stated that the course, which would be called "Social Issues in Medicine", had been approved by the Faculty of Medicine curriculum committee and would be submitted to Senate in due course. The course would deal mostly with obvious social issues as they inter-relate to the work of the medical graduate including problems of the aging population and their care.

Dr. Hardwick read to Senate a letter received from Dr. Friedman which stated that when the proposed changes for First Year Medicine were passed by Faculty it was agreed that these were contingent on the preparation of an acceptable syllabus for the course in Behavioural

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Reports of Committees of SenateCurriculum CommitteeFaculty of Medicine (continued)

Science that could be passed by both the Faculty of Medicine and Senate in the normal manner; since no such syllabus had been presented the Department of Anatomy was not prepared to modify Anatomy 400 and 401 and abbreviate its own highly integrated courses in favour of an unknown course.

Dr. Johnstone, chairman of the Faculty of Medicine curriculum committee, commented that the letter was in error in that this was not what the Faculty of Medicine had agreed to.

In reply to a query as to when the course would be submitted for Senate approval Dean Bates stated that the Faculty committee was awaiting assurance of a time slot for this course.

Following a brief discussion the motion was put and carried.

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| Dr. Hardwick |) | <i>That a new course, Anatomy 405 (3)</i> |
| Dr. Webber |) | <i><u>Physiology and Biophysics of Animal Cells</u>, recommended by the Faculty of Medicine, be approved.</i> |

CarriedPharmaceutical Sciences (See Appendix 'B')

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| Dr. Hardwick |) | <i>That a new course and course change</i> |
| Dean Riedel |) | <i>recommended by the Faculty of Pharmaceutical Sciences be approved.</i> |

Carried

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Reports of Committees of SenateCurriculum Committee (continued)Physical Education and Recreation (See Appendix 'B')

Dr. Hardwick) *That a new course and course changes*
 Mr. Osborne) *recommended by the School of Physical*
 Education and Recreation be approved.

CarriedSchool of Rehabilitation Medicine (See Appendix 'B')

Dr. Hardwick) *That the course and calendar changes*
 Dr. David) *recommended by the School of Rehabilitation*
 Medicine be approved.

CarriedFaculty of Science (See Appendix 'B')

Dr. Hardwick) *That new courses and course changes*
 Dean Volkoff) *recommended by the Faculty of Science*
 be approved.

Carried

Modified descriptions for Zoology 417, 314 and 407 recommended
 by the committee were approved.

Dr. Hardwick) *That program changes recommended by*
 Dean Volkoff) *the Faculty of Science be approved.*

CarriedNominating Committee

Dr. Bourne presented the report. At its meeting of November 13, 1974
 Senate agreed that a committee be established to investigate the operation
 of the Bookstore and report back to Senate.

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Reports of Committees of SenateNominating Committee (continued)

The following membership had been recommended by the committee:-

Dr. W. D. Kitts
Mr. A. Milton Moore
Mr. G. J. Peet
Mrs. L. Sayle
Mr. B. Stuart-Stubbs

Dr. Bourne)
Dr. McGregor) *That the recommendations of the
 Nominating Committee be approved.*

Carried

Ad hoc Committee on Teaching Evaluation

The final report of the committee was presented by Dr. Daniells. The report outlined the various methods employed by Faculties and Schools to evaluate teaching. The committee concluded that there was no need to alert Faculties and Schools to their responsibilities in the matter of teaching evaluation, nor was there any possibility of imposing upon them a common method of tackling the problem. What was required was some means of interchanging the experience and opinion of the various Faculties and Schools and the provision of a forum where instruction and discussion may be available to staff members who would find them useful.

The recommendations contained in the report were:-

1. That the President's office establish a permanent committee to include the representatives of Faculties specially charged with the responsibility of evaluating teaching.

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Reports of Committees of SenateAd hoc Committee on Teaching Evaluation (continued)

2. That the committee set up a series of short courses, staffed by volunteers from the Faculty at large approved by the committee, to be offered one or more each academic year, according to demand.

Dr. Daniells) *That the report be accepted.*
 Dr. Bongie)

Carried

On behalf of Senate the Chairman paid tribute to Dr. Daniells who was attending his last Senate meeting and would be retiring from the University at the end of the month.

Dr. Clark read to Senate the following tribute to Dr. Daniells on the occasion of his last meeting as a member of the University Senate: -

*O shades of Dante and of Milton bright!
 Come to my aid as I do sing this night
 Of your descendant, Daniells, poet of light.*

*Master of image, metaphor in verse,
 Of gentle wit, evocative and terse.
 To wield with patient skill how well he knows
 The stainless steel of perfect English prose.*

*Oft has he pondered in his mortal span
 The many ways God reaches out to man
 With steadfast love to set our hearts aflame,
 Free to respond to God who knows us each by name.*

*To instil love of learning Daniells has zest
 To encourage the good to strive for the best.
 Such teaching, he tells us, does not come by birth,
 But by a commitment, a task of high worth.*

*And he, when lengthy our verbose debate,
 Reminds himself of Milton's thought sedate:
 They also serve who only stand and wait.*

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Reports of Committees of Senate (continued)Committee on Implementation of the Universities ActSenate Membership - Joint Faculty Representatives

Dean McClean presented the report. The recommendations of the committee were:-

1. That the President be asked to call a Joint Meeting of the Faculties for Thursday, February 6, 1975 at 12.30 p.m.
2. That the purpose of the meeting be to determine the manner in which the 10 joint faculty representatives to Senate are to be elected. (As required under the Universities Act section 35 (g).)
3. That to expedite the business of this meeting the faculty members be asked to make any submissions concerning procedures by giving written notice of motion not later than January 23, 1975.

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| Dean McClean |) | <i>That the recommendations of the</i> |
| Dr. Ross |) | <i>committee be approved.</i> |

It was agreed that the date of the meeting be changed to February 13, 1975. (N.B. The date was later changed back to February 6, 1975 but the time of the meeting was changed to 4.30 p.m.)

The motion was put and carried.

Representatives from the individual Faculties

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| Dean McClean |) | <i>That the individual Faculties make</i> |
| Dr. Kennedy |) | <i>their own decisions on the procedures</i> |
| | | <i>and timing of the election of their two</i> |
| | | <i>representatives to serve on Senate on</i> |
| | | <i>the understanding that all elections be</i> |
| | | <i>completed by March 31, 1975.</i> |

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Reports of Committees of SenateCommittee on Implementation of the Universities ActRepresentatives from the individual Faculties (continued)

The Chairman confirmed that the elections could be held at Faculty meetings subject to the terms of the Universities Act.

The motion was put and carried.

Publication of election results

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|----------------|---|
| Dean McClean) | <i>That Senate accept as policy the full disclosure of election results by publication of numbers of votes cast for the various candidates, except that for elections already under way or completed such disclosure be subject to the approval of all candidates in each election.</i> |
| Dr. Ross) | |

LostAcademic Year 1975-76

Proposals for the Academic Year 1975-76 were circulated for information with the exception of one item concerning the last day for changes in courses in the First Term.

At its meeting of February 24, 1971, Senate approved a recommendation of an ad hoc committee that students be permitted the first three weeks of term for changing most courses. This represented an extension of a week over the customary period. However, Faculty criticism had been so persistent it was felt that Senate should consider making the last day for

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Academic Year 1975-76 (continued)

changes Friday of the second week of lectures. There would continue to be provision for changes later than this date with the approval of the Faculty and instructor concerned.

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| Dean Cowan |) | <i>That the last day for changes</i> |
| Dr. McGregor |) | <i>in courses in the First Term be</i> |
| | | <i>Friday of the second week of</i> |
| | | <i>lectures.</i> |

Following a brief discussion the motion was put and carried.

Faculty of Arts (See Appendix 'C')

A list of courses to be offered in Intersession 1975 was circulated for information.

Faculty of Education (See Appendix 'C')

A list of courses to be offered January-April 1975, May-July 1975 and Summer 1976 was circulated for information.

Faculty of Graduate Studies (See Appendix 'C')

A list of Intersession evening credit course proposals was circulated for information.

Notice of motion re term of office of Deans

The following notice of motion, for discussion at the January 22, 1975 meeting of Senate, had been received from Dr. Epstein: -

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Notice of motion re term of office of Deans (continued)

"That the terms of reference of the joint Senate-Board Committee on the Selection of Deans include the question of the term of office of Deans."

Other Business

1. Mr. Funt gave notice of the following motion: -

"That Senate accept as policy the full disclosure of student election results by publication of numbers of votes cast for the various candidates."

2. A query was raised by Mr. Funt concerning the architectural plans and siting of the new library data processing centre. The Chairman suggested that Mr. Funt confer with him on this matter.
3. Concern was expressed regarding books on sale in the Bookstore which students had paid full price for in September but would not be using until the second term. It was suggested that the matter be referred to the Ad hoc Committee on the Bookstore.
4. Concern was also expressed that in some cases examination papers had been distributed 15 minutes late and students had therefore lost 15 minutes of the time allowed for examinations.
5. The following notice of motion was given by Dr. Cavers: -

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Other Business

5. (continued)

"That Senate establish the following regulations for the University: -

Take home examinations shall not contribute in total more than 20% of the final mark in any course."

6. Mr. Thom gave notice of the following motion: -

"WHEREAS

Effective alumni involvement in the University's academic governing body has been a tradition which has added a knowledge from the community into the academic decision making at U.B.C. and has helped to create a strong Alumni Association through giving the graduates a voice in the University affairs through a franchise which has created a strong graduate tie with the University which should not be weakened and,

WHEREAS

Convocation Senators with the knowledge gained in participation have served the university both during and long after their term as Senators by interpreting the University to the community and,

WHEREAS

The number of Convocation Senators has been reduced from 15 to 4 under the new Universities Act and,

WHEREAS

Much of the work of the University Senate is conducted "in committee" and the limit of 4 Convocation Senators precludes participation in this important function,

BE IT RESOLVED THAT:

This Senate increase by 11, the number of Senators to be elected by Convocation through Section 35 (2) (1)."

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Other Business (continued)

7. Mr. Osborne gave notice of the following motion: -

"That Senate establish a committee to consider specific study of the examination policies and practices generally with emphasis on Christmas examinations."

8. The Chairman paid tribute to Mrs. Field and to Mr. Trevino for their services as Senate representatives on the Board of Governors.

Tributes Committee

Senate concurred with the recommendation of the committee that Mrs. A. G. Birkett be granted the status of Professor Emerita of Education.

Dr. McGregor informed Senate that the following persons had accepted invitations to receive honorary degrees at the 1975 Congregation: -

William M. Armstrong
Carl E. Borden
Roy Daniells
John F. McCreary
Nathan T. Nemetz

The meeting adjourned at 9.45 p.m.

The next regular meeting of Senate will be held on Wednesday,
January 22, 1975.

Secretary

Confirmed,

Chairman

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APPENDIX 'A'New Awards Recommended to Senate

The Joseph Gibbs Memorial Bursary - A bursary of \$100 has been made available by Mr. and Mrs. Alfred Groberman in memory of Joseph Gibbs who was associated with the firm of Adams Pharmica Ltd. The award will be made to a needy student in the Faculty of Pharmaceutical Sciences.

The Robert Lee Scholarship - A scholarship of \$200, gift of Mr. Robert Lee, a graduate of the Faculty of Commerce and Business Administration, U.B.C., is offered annually to students in Commerce and Business Administration who are taking the Urban Land Economics option, have high academic standards, and are deserving of assistance to further their education. The award will be made on the recommendation of the Faculty.

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APPENDIX 'B'Course and Curriculum Proposals

A = new courses or substantial changes

B = minor changes

FACULTY OF AGRICULTURAL SCIENCESAgricultural Sciences

B Change Plant Science 439 now Agricultural Sciences 400
(change in number, title and description)

Animal Science

A New course 321 (1½) Analytical Methods in Animal Nutrition

A Change 422 - change in title, description and hours

B Changes 258 - change in description and hours
323 - change in prerequisite (now Animal
Science 321 (or equivalent) and 322.)
425 - change in units (now 3 units)

Food Science

A New course 258 (1½) Exploring Man's Food

B Changes 416 - change in title and description
425 - change in units (now 3 units)

Plant Science

A New course 414 (1½) Landscape Plant Production Systems

A Change 416 - change in number, title and description, now: -
415 (1½) Design in Landscape I

A New course 416 (1½) Design in Landscape II

B Changes 324 and 325 - change in title and description
331 - change in description
425 - change in description and units (now 3 units)
436 - change in description
438 - change in number and description
439 - change in number, title, description and hours

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF AGRICULTURAL SCIENCESPlant Science (continued)

A Deletion 424

Poultry Science

A New courses 321 (1½) Analytical Methods in Animal Nutrition
 422 (3) Nutritional Principles of Livestock and Poultry Feeding

A Change 410 - change in title, description and hours
 B Changes 258 - change in description and hours
 323 - change in prerequisite

Soil Science

B Changes 200 - addition to description
 413 and 416 - change in prerequisite, remove
 Soil Science 200
 425 - change in units (now 3 units)

SCHOOL OF ARCHITECTURE

B Changes Architecture 408 - change in number and title, now:-
 407 (1½) User Evaluation of Architecture

Architecture 407 - change in number, now:-
 408 (1½) Social Aspects of Architectural Space

FACULTY OF EDUCATIONSecondary Division

A New course Education 491 (3) Computers in Secondary Education

A Change Canadian Studies Concentration
First and Second Years to read:
 (a) 6 units of course work significantly Canadian
 in content or approach.

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF EDUCATIONSecondary Division

- A Change Canadian Studies Concentration
First and Second Years to read (continued)
 (b) 6 units of first or second year course work in ANTH, ASIA, CLST, ECON, HIST, HIST FINA, HIST MUSC, PHIL, POLI, SLAV, SOCI or URST.
 Note: Students combining this concentration with a Social Studies Concentration may apply no more than 3 units of course work for credit in both concentrations.
- B Changes Social Studies Concentration (emphasis on Social Sciences) to read:
 Recommended this Concentration be combined with History or Geography emphasis. (Where this is done, no more than 3 units of course work for credit in both concentrations may apply).
Industrial Education - Addition of phrase "Organization for instruction" to the course description of each of the following: EDUC 230, 252, 350, 351, 354, 357, 359, 360, 450, 451, 452, 453, 457, 463, 467.
Mathematics Education - Add: EDUC 491 to:
 List of available electives for the One-year Program for Graduates.
 List of electives for Fifth Year regular program (Secondary).
Art Education, Major
 Add: Fifth Year: -
 Professional year, no Art Education studio courses may be taken this year. Studio courses continued during practice teaching.
Librarianship Concentration - now to read:
Third and Fourth Years: 12 units consisting of:
 (a) EDUC 381, 383, 385, 387
 (b) 3-4 units selected from EDUC 384, 386, 388
 (c) 1½-3 units selected from EDUC 414, 472, 494, 495, 496.

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF EDUCATIONSecondary Division

B Changes (continued)

Admission - Section 3.

Delete asterisk against library

Academic Concentrations, Majors and Honours for
Secondary TeachersDelete asterisk against: Library and Earth and
Space ScienceBiological Sciences, Concentration and Major
Second, Third and Fourth Years

(a) Delete: BOTA 305, MICB 201, ZOOL 305 and 301

Add: BOTA 301 and ZOOL 205

(b) Delete: ZOOL 204

Add: ZOOL 304

(c) Delete: ZOOL 401

Add: ZOOL 403, 412.

Earth and Space Sciences ConcentrationGroup A to read: At least 3 units from ASTR 200,
420 or GEOP 210

Group B: Insert GEOL 327

Group C: Insert GEOP 210

Add to present penultimate paragraph after ASTR 200:
"or GEOP 210"Add as new last paragraph: "Only one of the English
at the 200 level or 303 is required."Earth and Space Sciences Major

Add GEOP 210 to list

Chemistry, Concentration and MajorAdd "or 335 (3)" after 320 (1) in both Senior Years
(Concentration) and Second, Third and Fourth Years
(Major)Mathematics Concentration to read:Senior Years MATH 310, 311 and at least 3 more units
of Mathematics to be selected from MATH 205, 301, 305,
312, 318, 322, 445Mathematics Major to read:First and Second Years MATH 100, 120, 121, 200, 205,
221, 222 and CPSC 210

Secondary Division

- B Changes
- Mathematics Major to read: (continued)
Senior Years Mathematics 310, 311 and at least
7 more units of Mathematics to be selected from
MATH 301, 305, 312, 318, 322, 445
- EDUC 332 - change in hours to (3-0; 3-0)
389 - change in course description
432 - change in title and hours; will now read:
432 (3) Psychology of Adolescence

A Changes

| | |
|----------|--|
| EDUC 473 | - change in number and title; now reads: EDUC 305 (3) <u>Curriculum and Instruction in Developmental Reading in the Elementary School</u> |
| 437 | - change in description, units and hours; now reads: EDUC 437 (1½ or 3) <u>Teaching Maladjusted Children</u> |

- | | | |
|---|--------|---------------------------------------|
| B | Change | 416 - addition of (1) laboratory hour |
|---|--------|---------------------------------------|

- | | | |
|---|---------|--|
| A | Changes | <u>Section A</u> <u>The Four-Year Program</u> <u>Second Year to read:</u> Second Year (1975-76 only) English at the 200-level Prerequisite or elective Academic Electives (ENG 303 strongly recommended) EDUC 297 and 305 |
|---|---------|--|

A question arose re the offering of 305 ahead of 310 and it was agreed that Child Development and Development in Reading should be offered in the same year and an attempt would be made to arrange this.

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF EDUCATIONElementary Division

A Changes

Section A (continued)Third and Fourth Year

Program changed to make it possible for Third Year students to include EDUC 305 and in-term blocks of student teaching.

B Changes

Fourth Year, regular

Change in wording for clarification.

Transferring to Third Year

English 303 has been deleted as a compulsory course so that EDUC 305 can be included. Other minor changes made for clarification.

Section CProgram for Candidates Holding a Teaching Certificate

Delete: Honours Program for B.Ed. (Elem.) Degree

Art Education Concentration and Major

Professional year imposes necessity to change course sequences.

Mathematics Education Concentration to read as follows:

MATH 100, 121, EDUC 372, 373, 488, 485 and 3 units of electives to be chosen from MATH 120, 130, 140, 205, 221 and 222.

Mathematics Education Major

Third and Fourth Years to read as follows:

EDUC 372, 373, 488, 485; MATH 120, 310, 311 and 6 units of electives to be chosen from MATH 140, 205, 312, 318, CPSC 210

Music Education Concentration

Third and Fourth Years - change to:

... 3 units from MUED 104 ...

Science Education Major

Third and Fourth Years - change to read as follows:

EDUC 380, 409, 3 units chosen from one of the sciences named above and not previously taken or GSED 309; 9 units of elective science courses approved by the Science Education Department. (GEOP 310 is recommended).

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF FORESTRY

- A New courses FRST 373 (2) Principles of the Design of Forestry Structures and Mechanisms
 FRST 426 (3) Forest Rangeland Management
 FRST 443 (1½) Remote Sensing in Forestry
 FRST 494 (1) Forest Landscape Analysis and Design
- B Changes FRST 270, 273 - change in description
 FRST 302 - change in lab hours
 FRST 351 - change in title and description
 FRST 395 - change in description
 FRST 430 - change in units and hours
 FRST 442 - change in description, title and hours
 FRST 463 - add prerequisite (FRST 373)
 FRST 481, 482 - addition to description
 FRST 491 - change in title and description
 FRST 492 - change in description and hours
- A Deletion FRST 473

FACULTY OF GRADUATE STUDIES

- A New courses Physiology 521 (1½) Advanced Topics in Renal Physiology
 Physiology 522 (1½) Advanced Topics in Cardiovascular Physiology
 Physiology 523 (1½) Advanced Topics in Gastrointestinal Physiology
 Physiology 524 (1½) Advanced Topics in Endocrinology
 Physiology 526 (1½) Advanced Topics in Neurophysiology
 Physiology 527 (1½) Advanced Topics in Respiratory Physiology

FACULTY OF PHARMACEUTICAL SCIENCES

- A New course PHAR 441 (1½) Advanced Laboratory in Pharmacology
- B Change Under heading "Promotion Requirements", Calendar pages 265/266; after Item 4, page 266 insert new Item 5 as follows: (subsequent numbering to be changed accordingly)

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF PHARMACEUTICAL SCIENCES

B Change (continued)

5. A student who fails to reach a pass standing in the Dispensing section of Pharmaceutics 310, will receive a standing of 'T' for the course. Provided other promotion requirements are satisfied, the student will be permitted to register in the Fourth year but will be required to repeat the Dispensing section of 310 and take all necessary tests and examinations both theoretical and practical pertaining thereto. On the satisfactory completion of the Dispensing section of 310, a grade will be assigned for the entire Pharmaceutics 310 course at the end of the Fourth year. In the event of failure to reach a satisfactory standard by the end of the Fourth year, the degree will not be awarded until evidence is produced that a satisfactory standard has been attained.

SCHOOL OF PHYSICAL EDUCATION AND RECREATIONA New course Physical Education 423 (1) Wrestling CoachingA Changes The Bachelor of Physical Education Degree Program
Option AFourth Year

Present calendar entry: "Electives:

Physical Education Theory.....3-6

Physical Education 462..... 1½"

Proposed calendar entry: "Electives:

Physical Education Theory.... 4½-7½"

Physical Education ActivityRequired courses for all students on Option A and
Option BPresent calendar entry: "One Course from Area II
(Dance)"Proposed calendar entry: "Physical Education 240
or 241 (see Note 1)"

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsSCHOOL OF PHYSICAL EDUCATION AND RECREATIONA Changes Physical Education Activity (continued)Physical Education 240 (1) DancePhysical Education 241 (1) Contemporary Dance I

Note 1: It is strongly recommended that Women students complete 2 units of Dance, one of these being P.E. 241.

SCHOOL OF REHABILITATION MEDICINE

A Changes Revisions in numbering of Clinical Training and Practice courses:

| | |
|----------|-----------------------------------|
| 211 (1½) | <u>O.T. Clinical Practice I</u> |
| 212 (1½) | <u>P.T. Clinical Practice I</u> |
| 309 (1) | <u>O.T. Clinical Practice II</u> |
| 310 (1) | <u>P.T. Clinical Practice II</u> |
| 311 (2) | <u>O.T. Clinical Practice III</u> |
| 312 (2) | <u>P.T. Clinical Practice III</u> |
| 409 (3) | <u>O.T. Clinical Practice IV</u> |
| 410 (3) | <u>P.T. Clinical Practice IV</u> |

Old 409 - change in number, now 408

Delete - 308 and old 408

Note:

On satisfactory completion of the B.S.R. a student must complete a senior clinical internship of sixteen weeks in order to qualify for membership in the Canadian Occupational Therapy Association and the Canadian Physiotherapy Association. Eight of these are spent in occupational therapy departments and eight in physiotherapy departments.

FACULTY OF SCIENCEBiology

| | | | |
|---|-------------|---------------|--|
| A | New courses | MRNE 401 (3) | <u>Special Topics in Marine Biology</u> |
| | | MRNE 402 (1½) | <u>Special Topics in Marine Biology</u> |
| | | MRNE 435 (3) | <u>Introduction to Biological Oceanography</u> |

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF SCIENCEBiology (continued)

- B Changes Addition of explanatory note under heading
"Marine Science"
BIOL 313 - change in title and description; now reads:
BIOL 313 (1½) Microbes and Man
- A Change BIOL 405 - change in term and description, added
prerequisites

Botany

- A Change BOTA 440 - deleted and replaced by:
BOTA 441 (1½) Paleobotany
BOTA 442 (1½) Palynology
- B Change BOTA 330 - change in description only

Chemistry

- A Change CHEM 303 - change in title and description; now reads:
CHEM 303 (2) Intermediate Organic Chemistry
- B Change 330 - change in description only
- A Change 403 - change in description only
- B Change 411 - change in prerequisite only

Computer Science

- B Change CPSC 402 - change in prerequisite

Geography

- B Changes GEOG 313 and 414 - change in description

Geological Sciences

- A Changes GEOL 410 - change in number and description; now
reads:
GEOL 435 (1½) Field Geology

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF SCIENCEGeological Sciences (continued)

- B Changes
- GEOL 300 - change in prerequisites to read:
GEOL 105, 107 or 150
 - GEOL 312 - change in prerequisites to read:
GEOL 105, 107 or 150
 - GEOL 415 - change in prerequisites to read: GEOL
314 or permission of the Head of the
Department
 - GEOL 314 - change in term offered
 - GEOL 320 - change in hours
 - GEOL 342 - clarification of calendar description
re hours
 - GEOL 404 - change in title; now reads:
GEOL 404 (1½) Structural Geology II

Geophysics and Astronomy

- A Deletions
- GEOP 301 (3) Waves and Seismology
 - GEOP 302 (3) General Geophysics
 - GEOP 402 (1) Applied Geophysics Laboratory
 - GEOP 403 (1) Geochronology
 - GEOP 415 (3) Geophysical Analysis
- A New courses
- GEOP 220 (1½) General Geophysics
 - GEOP 320 (1½) Introduction to Theoretical Geophysics
 - GEOP 321 (1½) Seismology
 - GEOP 322 (1½) Time Series Analysis in Geophysics
 - GEOP 420 (1½) Potential Methods
 - GEOP 421 (1½) Applied Geophysical Laboratory
 - GEOP 422 (1½) Geophysical Instrumentation
 - GEOP 423 (1½) Geochronology and Isotope Geophysics
 - GEOP 425 (1½) Geophysics Seminar
- A Changes
- GEOP 449 (2) - reduction in unit value to 1½
 - GEOP 412 - change in number, unit value and hours;
now reads:
GEOP 424 (1½) Geomagnetism and
Space Plasma Physics
Hours (3-0; 0-0)

Course and Curriculum Proposals

Geophysics and Astronomy (continued)

- B Changes GEOP 201 - change in number; now reads:
GEOP 221 (3) Physics of the Earth
ASTR 200 - change in description only

Microbiology

- | | | | |
|---|---------|----------|--|
| A | Changes | MICB 409 | - addition of BIOC 410 as prerequisite; change in hours to (0-0; 3-0) |
| | | MICB 448 | - addition of MICB 321 as prerequisite |
| | | MICB 449 | - addition of MICB 321 as prerequisite |
| | | MICB 321 | - enrolment restricted to Majors and Honours students in Microbiology |
| | | | |
| B | Change | MICB 403 | - MICB 302 prerequisite removed |

Physics

- B Changes
- PHYS 110 - change in hours to (3-2-1; 3-2-1)
- PHYS 300 - change in description and hours
(2-0-1*) (2-0-1*)
- PHYS 312 - change in description only
- PHYS 319 - change in description only
- change in number for the following:
- | | |
|------------|------------|
| 105 to 145 | 318 to 317 |
| 130 to 140 | 328 to 318 |
| 210 to 216 | 330 to 340 |
| 220 to 206 | 400 to 412 |
| 300 to 311 | 430 to 440 |
| 310 to 307 | 441 to 421 |

Zoology

- [illegible]

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF SCIENCEZoology

A Changes (continued)

ZOOL 417 - to be offered as 1½ unit course in Second Term only

- A New course ZOOL 314 (1½) Molecular Developmental Biology
 ZOOL 407 (1½) Cell Differentiation
 ZOOL 427 (1½) Molecular and Theoretical Aspects of Morphogenesis

- B Changes ZOOL 304 - addition of BIOL 200 and 201 as prerequisites with BIOC 410 highly recommended as concurrent
 ZOOL 404 - change in course description only
 ZOOL 406 - change in course description only

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APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF ARTS - Intersession 1975

| | | |
|----------------------|------------|---|
| ANTH | 201 (3) | <u>Ethnic Relations</u> |
| ANTH | 414 (3) | <u>Economic Anthropology</u> |
| ASIA | 435 (3) | <u>Modern Japanese Novels in Translation</u> |
| ECON | 100 (3) | <u>Principles of Economics</u> |
| ECON | 490 (3) | <u>Applied Economics</u> |
| ENGL | 100 (3) | <u>Literature and Composition</u> |
| ENGL | 201 (3) | <u>A Survey of English Literature from Chaucer to 1914</u> |
| ENGL | 204 (3) | <u>Short Fiction</u> |
| ENGL | 301 (1½) | <u>Practical Writing</u> |
| ENGL | 302 (1½) | <u>Advanced Practical Writing</u> |
| ENGL | 303 (3) | <u>English Composition</u> |
| (2 or more sections) | | |
| ENGL | 308 (3) | <u>History of the English Language</u> |
| ENGL | 321 (3) | <u>Approaches to Poetry</u> |
| ENGL | 365 (3) | <u>Shakespeare</u> |
| ENGL | 440 (3) | <u>Canadian Literature</u> |
| ENGL | 452D (3) | <u>Studies in American Literature: The American Renaissance</u> |
| FINA | 125 (3) | <u>History of Western Art</u> |
| FINA | 181 (3) | <u>Studio 1</u> |
| FINA | 339 (1½-3) | <u>19th and 20th Century Art</u> |
| FINA | 397 (3) | <u>Directed Study Abroad</u> - Section 1 - London |
| (2 sections) | | Section 2 - Florence |
| FREN | 402 (3) | <u>Advanced Studies in French Language and Style</u> |
| FREN | 418 (3) | <u>Literatures of the French-Speaking World</u> |
| GEOG | 351 (1½) | <u>Geography of Urbanization</u> (Tentative) |
| GERM | 430 (3) | <u>German for Reading Knowledge</u> |
| HIST | 413 (3) | <u>The Reformation</u> |
| HIST | 423 (3) | <u>Economic History of Modern Japan</u> |
| HIST | 438 (3) | <u>History of the Soviet Union</u> |

Wednesday, December 18, 1974.

APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF ARTS - Interession 1975 (continued)

| | | |
|------|-------------|---|
| ITAL | 100 (3) | <u>First Year Italian</u> |
| LING | 445 (3) | <u>Socio-Linguistics</u> |
| PHIL | 100/410 (3) | <u>Introduction to Philosophy/Philosophical Problems</u> |
| PHIL | 250/350 (3) | <u>Epistemology & Metaphysics</u> |
| PHIL | 301 (3) | <u>Ethics</u> |
| PHIL | 317 (3) | <u>Philosophy of Religion</u> |
| POLI | 204 (3) | <u>International Politics</u> |
| POLI | 300 (3) | <u>Development of Political Theory: Basic Concepts & Issues</u> |
| PSYC | 200 (3) | <u>Experimental Psychology</u> |
| PSYC | 309 (3) | <u>Cognitive Processes</u> |
| PSYC | 316 (3) | <u>Methods of Research</u> |
| RELG | 341 (3) | <u>Islamic Art and Architecture</u> |
| SOCI | 220 (3) | <u>Sociology of Life-Styles</u> |
| SOCI | 270 (3) | <u>Introduction to Comparative Social Institutions</u> |
| SOCI | 361 (3) | <u>Social Stratification</u> |
| SOCI | 365 (3) | <u>Socialization</u> |
| SOCI | 473 (3) | <u>Sociology of Mental Illness</u> |
| SOCI | 475 (3) | <u>Social Conflict</u> |
| SPAN | 100 (3) | <u>First Year Spanish</u> |
| SPAN | 200 (3) | <u>Second Year Spanish</u> |

Credit Correspondence Courses

| | | |
|------|-----|--|
| ENGL | 340 | <u>The English Novel from Defoe to Hardy</u> |
| ENGL | 341 | <u>The English Novel from Joseph Conrad to the Present</u> |
| ENGL | 375 | <u>Milton</u> |
| ENGL | 451 | <u>A Survey of American Literature since 1860</u> |

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APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF ARTS - (continued)Courses being developed under the Provincial Government Grant to the Centre for Continuing Education for Innovative Programs:

| | | |
|------------------|-----|---|
| ANTH | 412 | <u>Introduction to Anthropological Problems</u> |
| ECON | 335 | <u>Economic History of Canada</u> |
| FINA | 251 | <u>History of the Art of the Americas</u> |
| FREN | 400 | <u>A Survey of French Literature in Translation</u> |
| HIST | 303 | <u>History of the Canadian West</u> |
| *POLI SC 200/201 | | <u>Government of Canada/Foreign Governments</u> |
| POLI SC 302 | | <u>Public Administration</u> |
| *PSYC | 100 | <u>Introductory Psychology</u> |
| *PSYC | 300 | <u>Behaviour Disorders</u> |
| PSYC | 301 | <u>Developmental Psychology</u> |
| PSYC | 304 | <u>Brain and Behaviour</u> |
| *PSYC | 308 | <u>Social Psychology</u> |
| *SOCI | 471 | <u>Social Control</u> |

*for degree-credit and for credit toward a Centre for Continuing Education Criminology Certificate.

FACULTY OF EDUCATIONJanuary-April 1975

| | | | |
|------|-----------|---|---------|
| EDUC | 382 (1-½) | Services and Programs in Elementary School Libraries | U.B.C. |
| | | -replacing EDUC 389 previously announced | |
| EDUC | 465 (1-½) | Technical Problem in Industrial Education | Burnaby |

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APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF EDUCATION (continued)May-July 1975 - Intersession

| | | | |
|------|-----------------|---|--------------------------|
| EDUC | 334 (3) | The Role of the Teacher in Home and Community | Richmond |
| | | or alternative course for pre-school majors | |
| EDUC | 404 (3) | Curriculum and Instruction In Social Studies | U.B.C. |
| EDUC | 430 (3) (tent.) | History of Education | U.B.C. |
| EDUC | 439 (1-½) | Instructional Television: Principals and Application of non-Studio Techniques | U.B.C. |
| EDUC | 470 (3) | Educational Sociology | U.B.C. |
| EDUC | 471 (3) | Diagnosis of Remediation in Elementary School Math. | off-campus location, tba |
| EDUC | 473 (3) | Developmental Reading in Elementary Grades | U.B.C. |
| | | -or its replacement if approved by Senate | |
| EDUC | 472/74 (3) | Guiding Reading Growth in Junior & Senior Secondary Schools/Developing Reading Programs for Junior and Senior Secondary Schools | U.B.C. |
| EDUC | 478 (3) | Teaching English as a Second Language | U.B.C. or Greater Van. |
| EDUC | 489 (3) | Applied Linguistics for Teachers | U.B.C. or Greater Van. |
| EDUC | 301/302 (1½/1½) | Introduction to Educational Psychology/Introduction to Educational Evaluation | U.B.C. |
| EDUC | 310/311 (1½/1½) | Growth and Development/ The Nature and Measurement of Learning | U.B.C. |
| EDUC | 332 (3) | Psychology of Adolescence - Development and Adjustment | U.B.C. |
| EDUC | 494 (1-½) | Communication Media Programs in Schools - Motion Picture Film and Television | U.B.C. |
| EDUC | 495 (1-½) | Still Photography in Education | U.B.C. |
| EDUC | 496 (1-½) | Motion Picture Production in Education | U.B.C. |

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APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF EDUCATIONMay-July 1975 - Intersession (continued)

| | | | |
|------|---------|-----------------------|--------|
| ENED | 311 (3) | Children's Literature | U.B.C. |
|------|---------|-----------------------|--------|

| | | | |
|------|-----------|---|--------|
| PHED | 364 (1-½) | Psychological Foundations of Sport and Physical Activity | U.B.C. |
|------|-----------|---|--------|

Summer 1976

| | | | |
|------|-----------|--------------------------------|-----------------------------|
| PHED | 360 (1-½) | Comparative Physical Education | directed study in Canada |
|------|-----------|--------------------------------|-----------------------------|

| | | | |
|------|-----------|----------------------------|--|
| PHED | 461 (1-½) | Physical Education Project | |
|------|-----------|----------------------------|--|

- to be offered at several Canadian Universities followed by attendance at the 1976 Olympic games in Montreal

FACULTY OF GRADUATE STUDIESIntersession Evening Credit Course Proposals

| | | |
|------|---------|--|
| AGEC | 504 (3) | <u>Extension Planning and Evaluation</u> |
|------|---------|--|

- restricted to students on graduate degree programs in Adult Education and Agriculture
- Instructor: Dr. J. Thornton

| | | |
|------|----------|---|
| EDUC | 580 (1½) | <u>Problem in Education - Information Systems and Knowledge Production and Utilization in Education</u> |
|------|----------|---|

- enrolment limited to 12 suitably qualified students
- Instructor: Dr. E. Summers

Wednesday, December 18, 1974.

The Fourth regular meeting of the Senate of The University of British Columbia for the Session 1974-75 was held on Wednesday, December 18, 1974 at 8.00 p.m. in the Board and Senate Room, Administration Building.

Present: President W. H. Gage (Chairman), Dean J. H. M. Andrews, Dean D. V. Bates, Dr. L. L. Bongie, Dr. C. B. Bourne, Dr. C. A. Brockley, Dr. T. H. Brown, Rev. P. C. Burns, Mr. R. J. Carter, Dr. S. D. Cavers, Dr. R. M. Clark, Dean I. McT. Cowan, Dr. R. Daniels, Dr. C. G. David, Ms. B. G. Errington, Mrs. F. Field, Dr. C. V. Finnegan, The Hon. E. D. Fulton, Dean E. M. Fulton, Mr. G. S. Funt, Dean J. A. F. Gardner, Dr. W. C. Gibson, Dr. D. F. Hardwick, Dr. T. D. Heaven, Dr. B. Howard, Miss W. J. Hudson, Dr. F. R. C. Johnstone, Dr. J. M. Kennedy, Dr. L. Kraitz, Mrs. W. T. Lane, Dr. D. J. MacDougall, Mr. D. B. Mackay, Dean A. J. McClean, Dr. R. E. McConnell, Dr. C. A. McDowell, Dr. M. F. McGregor, Rev. J. P. Martin, Mr. A. M. Moore, Ms. C. M. Moriarty, Mr. R. F. Osborne, Dr. R. A. Restrepo, Dean B. E. Riedel, Dr. G. Rosenbluth, Dr. I. S. Ross, Dr. A. D. Scott, Dean M. Shaw, Ms. S. H. M. Smaill, Mrs. C. A. Soong, Dr. J. R. Stein, Mr. G. A. Thom, Mr. B. B. Trevino, Dr. M. Uprichard, Dean G. M. Volkoff, Dr. W. A. Webber, Dr. R. L. White, Acting Dean R. M. Will.

Observer: Mr. J. A. Banham

Messages of regret for their inability to attend were received from Chancellor N. T. Nemetz, Mrs. M. F. Angus, Mr. R. M. Buzza, Mr. C. P. Cole, Dr. N. Epstein, Dean W. D. Finn, Dr. J. G. Foulks, Dr. S. M. Friedman, Dr. R. F. Gray, Mr. I. F. Greenwood, Dr. J. M. Houston, Dr. W. D. Kitts, Mrs. J. MacD. Lecky, Dean S. W. Leung, Mr. T. B. Lindsay, Dr. P. A. Lusztig, Dr. G. V. Parkinson, Mr. P. S. Plant, Dr. K. S. Stockholder, Mr. B. Stuart-Stubbs, Mr. F. C. Walden, Mr. D. R. Williams.

Wednesday, December 18, 1974.

The Chairman welcomed to Senate Rev. Paul C. Burns who had replaced Rev. R. W. Finn as Principal of St. Mark's College and as representative of the college on Senate.

Congratulations were offered to Ms. B. Gene Errington on her appointment by the Provincial Government as Status of Women Co-ordinator for International Women's Year 1975.

Congratulations were also extended to the two faculty members elected to serve on the Board of Governors, Dr. G. Rosenbluth and Dr. W. A. Webber, and to the two student members Mr. Svend J. Robinson and Mr. Richard H. Murray.

Minutes of the Previous Meeting

| | |
|----------------|--|
| Dr. Hardwick) | <i>That the Minutes of the Third regular meeting of Senate for the Session 1974-75 having been circulated, be taken as read and adopted.</i> |
| Dr. McGregor) | |

Carried

Business arising from the Minutes

Advisory Committee for the selection of Deans (P.6243-5)

Senate was notified that the following resolution was passed by the Board of Governors at its meeting of December 3, 1974: -

"That, as recommended by Senate at its meeting of November 13, 1974 the proposed Advisory Committee for the Selection of Deans be adopted only for the selection of a Dean of Arts, to succeed the present Dean of Arts; and that President Walter H. Gage be and is hereby authorized to appoint an ad hoc committee of the Board to meet with an ad hoc committee of Senate to consider procedures for the establishment of future advisory committees for the selection of deans; these procedures to be available by April 1, 1975."

Wednesday, December 18, 1974.

Business arising from the Minutes

Advisory Committee for the selection of Deans (continued)

In order to save time the Agenda Committee had requested the Nominating Committee to submit recommendations for membership of the Senate ad hoc Committee. The Nominating Committee recommended the following membership:

Dr. C. B. Bourne
Dr. C. V. Finnegan
Miss A. J. Francis
Acting Dean R. M. Will

Dr. McGregor) *That the recommendations of the*
Dean Volkoff) *Nominating Committee be approved.*

Carried

Examination Schedules (P. 6246)

The following statement concerning examination schedules had been circulated for information: -

"There was discussion at the meeting of Senate held November 13, 1974 (Minutes, P. 6246) of the desirability of adjusting the examination timetable to avoid multiple exams on the same day for as many students as possible. The use of a computer to equalize spacings was suggested.

Steps have been taken by the Systems Services Office and the Computing Centre to experiment with improved methods before the examinations of April, 1975. One or more algorithms will be tried on the December, 1974 data, and the results presented to the Registrar's Office for a decision on their merits.

These attempts are unlikely to be greeted with universal acclaim. For one thing, the greater the success in equal spacing of examinations, the more students will find their last exam in the final day or two of the exam period preventing an early departure for vacation employment or travel. Also, there is a conflict with the need to schedule large classes fairly early to give faculty

Wednesday, December 18, 1974.

Examination Schedules (continued)

members reasonable opportunities for marking before the Registrar's deadlines. Further, there are special problems with exams that require special facilities, or for which a faculty member has requested avoidance of certain dates.

In short, the criteria for optimizing the timetable have not been fully specified by the University."

From the Board of Governors

Student representation on the Advisory Committee for the selection of a Dean of Arts

The following resolution was passed by the Board of Governors at its meeting of December 3, 1974: -

"That, subject to approval by Senate, the Board of Governors accepts the request conveyed in a letter from the Acting President of the Arts Undergraduate Society, that the two student representatives on the Advisory Committee for the Selection of a Dean of Arts, be nominated from and elected by the registered students in the Faculty of Arts and graduate students associated with the Faculty of Arts, the nominations and elections to be conducted by the Arts Undergraduate Society in accordance with procedures considered satisfactory by the Registrar."

| | | |
|--------------|---|--|
| Dr. Cavers |) | <i>That the resolution of the Board of</i> |
| Dean Gardner |) | <i>Governors be approved.</i> |

Carried

Notification of approval in principle of Senate recommendations - subject, where applicable, to the proviso that none of the programs be implemented without formal reference to the President and the formal agreement of the President; and that the Deans and Heads concerned with new programs be asked to indicate the space requirements, if any, of such new programs.

Wednesday, December 18, 1974.

From the Board of Governors

Notification of approval in principle of Senate recommendations
(continued)

- (i) New courses and course changes in Botany, Biology, Biochemistry and Forestry, recommended by the Faculty of Graduate Studies. (P. 6252)
- (ii) Revision in the Calendar statement for requirements for the LL.B. degree recommended by the Faculty of Law. (P. 6237-8)
- (iii) Deletion of the Combined Honours B.Sc./M.D. or D.M.D. Program in Physiology, recommended by the Faculty of Medicine. (P. 6238)

Committee on Prizes, Scholarships and Bursaries

| | |
|---------------|--|
| Dean Riedel) | <i>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.</i> |
| Dean Cowan) | |

Carried

Reports of Committees of Senate

Curriculum Committee

Dr. Hardwick presented the report on proposals referred to the committee.

Faculty of Agricultural Sciences (See Appendix 'B')

| | |
|----------------|---|
| Dr. Hardwick) | <i>That new courses and course changes recommended by the Faculty of Agricultural Sciences be approved.</i> |
| Dean Shaw) | |

Attention was drawn to the fact that Plant Science 324 and 325 were comparable to Botany 330, and that Plant Science 331

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Reports of Committees of Senate

Curriculum Committee

Faculty of Agricultural Sciences (continued)

was comparable to Zoology 311. Dean Shaw agreed to a suggestion that the descriptions of these courses include a sentence stating that credit would be granted for only one of these courses and not for both.

The motion was put and carried.

| | | |
|--------------|---|--|
| Dr. Hardwick |) | <i>That the calendar changes recommended</i> |
| Dean Shaw |) | <i>by the Faculty of Agricultural Sciences</i> |
| | | <i>be approved.</i> |

It was pointed out that in the courses listed under Animal Science Physics 105 should read Physics 145.

The motion was put and carried.

School of Architecture (See Appendix 'B')

| | | |
|--------------|---|---|
| Dr. Hardwick |) | <i>That the course changes recommended</i> |
| Mr. Osborne |) | <i>by the School of Architecture be approved.</i> |

Carried

Faculty of Education (See Appendix 'B')

| | | |
|--------------|---|--|
| Dr. Hardwick |) | <i>That new courses, course and curriculum</i> |
| Dean Andrews |) | <i>changes recommended by the Faculty of</i> |
| | | <i>Education be approved.</i> |

Senate concurred with the recommendation of the committee that approval of the revision in the unit value of Education 437 be withheld pending clarification.

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Reports of Committees of SenateCurriculum CommitteeFaculty of Education (continued)

The motion was put and carried

Faculty of Forestry (See Appendix 'B')

Dr. Hardwick) *That new courses and course changes*
Dean Gardner) *recommended by the Faculty of Forestry*
 be approved.

Carried

Faculty of Graduate Studies (See Appendix 'B')

Dr. Hardwick) *That new courses in Physiology*
Dean Cowan) *recommended by the Faculty of*
 Graduate Studies be approved.

Carried

Faculty of Medicine

The following outline of proposed curriculum changes for
implementation in the 1975-76 Academic Year was submitted by
the Faculty of Medicine:

First Year

1. To allow for earlier introduction of clinical material a start of Pathology and Microbiology in second phase of second term of First Year, Pathology to conclude at the end of the first term of Second Year.
2. To allow for the earlier introduction of Pathology and Microbiology, Anatomy and Biochemistry to conclude at the end of the first phase of second term of First Year. The final examinations in Anatomy and Biochemistry will be at that time.

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Reports of Committees of SenateCurriculum CommitteeFaculty of MedicineFirst Year (continued)

3. To accomplish this it is necessary to lengthen the second term of First Year by three weeks, and divide it into two phases of nine weeks each.
4. Physiology will continue to be taught throughout First Year.
5. Though the Committee recommends that Biochemistry 410 be a prerequisite and be replaced by an appropriate Biochemistry course for medical and dental students, it feels it would be inappropriate to implement this proposal at a time when a head of Biochemistry has not been appointed. They propose that Biochemistry 410 continue for a further year, and 411 and 412 continue to be offered as electives.
6. Behavioural Sciences. The proposals allow the introduction of such a course within the first term of First Year, but are not dependent upon this. Firm proposals are not yet able to be brought to Faculty.

Second Year

1. The present formal pre-medical Second Year teaching will be concluded by the end of first term.
2. The second term will now consist largely of clinical work (bedside clinics, wardwork and clinical (systems) lectures) and will continue into the two terms of Third Year.
3. The clinical aspects of Pharmacology (e.g. Therapeutics) and Microbiology will be allotted time within the clinical (systems) lectures as appropriate.

Third Year

1. Present format will continue in first term.

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Reports of Committees of Senate

Curriculum Committee

Faculty of Medicine

Third Year (continued)

2. In the second term, three afternoons a week will be set aside for electives in basic science areas. On the other two afternoons wardwork will include attendance at specialty clinics, e.g. V.D., Radiotherapy, Arthritis, T.B., Rehabilitation.

Fourth Year

Clinical Clerkship should be 52 weeks.

Independent Study

To encourage habits of self education, up to one third of the time is made available for independent study and electives. The arrangement for this time varies, in each year, being formally identified in First and Second Year, but in Third Year one afternoon per week is unscheduled and in addition, wardwork usually does not occupy all the scheduled time.

It is recommended that formal teaching on Saturdays be abandoned.

Feasibility of Proposals

The proposals have been examined by the subcommittees for First and Second Years, and sample timetables have been prepared and approved. In Third Year the proposals have been approved in principle, but the detailed scheduling of lectures and clinics will be considered by the Third Year Committee. The arrangements for the basic science electives will require consideration by representatives of the basic science departments.

The Clinical Clerk Subcommittee will examine proposals for the allocation of time within the Clerkship.

Co-ordination with Faculty of Dentistry

The proposals have been examined by the Faculty of Dentistry and are acceptable.

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Reports of Committees of SenateCurriculum CommitteeFaculty of Medicine (continued)Co-ordination with other U.B.C. Timetables

Wherever possible, the existing timetabling has been retained to avoid difficult re-scheduling.

Dr. Hardwick)
Dr. Johnstone) *That the revised curriculum of the
Faculty of Medicine be approved in
principle. Specific Senate approval
will be required for implementation of:-*

- a) Behavioural Science course (First Year)*
- b) Biochemistry course (First Year)*
- c) Basic Science electives (Third Year)*
- d) Specialty Clinics and courses
(Third Year)*

In reply to a request for information on the proposed Behavioural Science course Dean Bates stated that the course, which would be called "Social Issues in Medicine", had been approved by the Faculty of Medicine curriculum committee and would be submitted to Senate in due course. The course would deal mostly with obvious social issues as they inter-relate to the work of the medical graduate including problems of the aging population and their care.

Dr. Hardwick read to Senate a letter received from Dr. Friedman which stated that when the proposed changes for First Year Medicine were passed by Faculty it was agreed that these were contingent on the preparation of an acceptable syllabus for the course in Behavioural

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Reports of Committees of SenateCurriculum CommitteeFaculty of Medicine (continued)

Science that could be passed by both the Faculty of Medicine and Senate in the normal manner; since no such syllabus had been presented the Department of Anatomy was not prepared to modify Anatomy 400 and 401 and abbreviate its own highly integrated courses in favour of an unknown course.

Dr. Johnstone, chairman of the Faculty of Medicine curriculum committee, commented that the letter was in error in that this was not what the Faculty of Medicine had agreed to.

In reply to a query as to when the course would be submitted for Senate approval Dean Bates stated that the Faculty committee was awaiting assurance of a time slot for this course.

Following a brief discussion the motion was put and carried.

| | | |
|--------------|---|--|
| Dr. Hardwick |) | <i>That a new course, Anatomy 405 (3)</i> |
| Dr. Webber |) | <i><u>Physiology and Biophysics of Animal</u></i> |
| | | <i><u>Cells</u>, recommended by the Faculty of</i> |
| | | <i>Medicine, be approved.</i> |

Carried

Pharmaceutical Sciences (See Appendix 'B')

| | | |
|--------------|---|---|
| Dr. Hardwick |) | <i>That a new course and course change</i> |
| Dean Riedel |) | <i>recommended by the Faculty of Pharmaceutical</i> |
| | | <i>Sciences be approved.</i> |

Carried

Wednesday, December 18, 1974.

Reports of Committees of Senate

Curriculum Committee (continued)

Physical Education and Recreation (See Appendix 'B')

| | |
|----------------|---|
| Dr. Hardwick) | <i>That a new course and course changes recommended by the School of Physical Education and Recreation be approved.</i> |
| Mr. Osborne) | |

Carried

School of Rehabilitation Medicine (See Appendix 'B')

| | |
|----------------|---|
| Dr. Hardwick) | <i>That the course and calendar changes recommended by the School of Rehabilitation Medicine be approved.</i> |
| Dr. David) | |

Carried

Faculty of Science (See Appendix 'B')

| | |
|----------------|---|
| Dr. Hardwick) | <i>That new courses and course changes recommended by the Faculty of Science be approved.</i> |
| Dean Volkoff) | |

Carried

Modified descriptions for Zoology 417, 314 and 407 recommended by the committee were approved.

| | |
|----------------|--|
| Dr. Hardwick) | <i>That program changes recommended by the Faculty of Science be approved.</i> |
| Dean Volkoff) | |

Carried

Nominating Committee

Dr. Bourne presented the report. At its meeting of November 13, 1974 Senate agreed that a committee be established to investigate the operation of the Bookstore and report back to Senate.

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Reports of Committees of SenateNominating Committee (continued)

The following membership had been recommended by the committee: -

Dr. W. D. Kitts
Mr. A. Milton Moore
Mr. G. J. Peet
Mrs. L. Sayle
Mr. B. Stuart-Stubbs

Dr. Bourne)
Dr. McGregor) *That the recommendations of the
Nominating Committee be approved.*

Carried

Ad hoc Committee on Teaching Evaluation

The final report of the committee was presented by Dr. Daniells. The report outlined the various methods employed by Faculties and Schools to evaluate teaching. The committee concluded that there was no need to alert Faculties and Schools to their responsibilities in the matter of teaching evaluation, nor was there any possibility of imposing upon them a common method of tackling the problem. What was required was some means of interchanging the experience and opinion of the various Faculties and Schools and the provision of a forum where instruction and discussion may be available to staff members who would find them useful.

The recommendations contained in the report were: -

1. That the President's office establish a permanent committee to include the representatives of Faculties specially charged with the responsibility of evaluating teaching.

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Reports of Committees of Senate

Ad hoc Committee on Teaching Evaluation (continued)

2. That the committee set up a series of short courses, staffed by volunteers from the Faculty at large approved by the committee, to be offered one or more each academic year, according to demand.

Dr. Daniells)
Dr. Bongie)

That the report be accepted.

Carried

On behalf of Senate the Chairman paid tribute to Dr. Daniells who was attending his last Senate meeting and would be retiring from the University at the end of the month.

Dr. Clark read to Senate the following tribute to Dr. Daniells on the occasion of his last meeting as a member of the University Senate:-

*O shades of Dante and of Milton bright!
Come to my aid as I do sing this night
Of your descendant, Daniells, poet of light.*

*Master of image, metaphor in verse,
Of gentle wit, evocative and terse.
To wield with patient skill how well he knows
The stainless steel of perfect English prose.*

*Oft has he pondered in his mortal span
The many ways God reaches out to man
With steadfast love to set our hearts aflame,
Free to respond to God who knows us each by name.*

*To instil love of learning Daniells has zest
To encourage the good to strive for the best.
Such teaching, he tells us, does not come by birth,
But by a commitment, a task of high worth.*

*And he, when lengthy our verbose debate,
Reminds himself of Milton's thought sedate:
They also serve who only stand and wait.*

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Reports of Committees of Senate (continued)

Committee on Implementation of the Universities Act

Senate Membership - Joint Faculty Representatives

Dean McClean presented the report. The recommendations of the committee were: -

1. That the President be asked to call a Joint Meeting of the Faculties for Thursday, February 6, 1975 at 12.30 p.m.
2. That the purpose of the meeting be to determine the manner in which the 10 joint faculty representatives to Senate are to be elected. (As required under the Universities Act section 35 (g).)
3. That to expedite the business of this meeting the faculty members be asked to make any submissions concerning procedures by giving written notice of motion not later than January 23, 1975.

Dean McClean) *That the recommendations of the*
 Dr. Ross) *committee be approved.*

It was agreed that the date of the meeting be changed to February 13, 1975. (N.B. The date was later changed back to February 6, 1975 but the time of the meeting was changed to 4.30 p.m.)

The motion was put and carried.

Representatives from the individual Faculties

Dean McClean) *That the individual Faculties make*
 Dr. Kennedy) *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 31, 1975.*

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Reports of Committees of SenateCommittee on Implementation of the Universities ActRepresentatives from the individual Faculties (continued)

The Chairman confirmed that the elections could be held at Faculty meetings subject to the terms of the Universities Act.

The motion was put and carried.

Publication of election results

| | |
|----------------|---|
| Dean McClean) | <i>That Senate accept as policy the full disclosure of election results by publication of numbers of votes cast for the various candidates, except that for elections already under way or completed such disclosure be subject to the approval of all candidates in each election.</i> |
| Dr. Ross) | |

LostAcademic Year 1975-76

Proposals for the Academic Year 1975-76 were circulated for information with the exception of one item concerning the last day for changes in courses in the First Term.

At its meeting of February 24, 1971, Senate approved a recommendation of an ad hoc committee that students be permitted the first three weeks of term for changing most courses. This represented an extension of a week over the customary period. However, Faculty criticism had been so persistent it was felt that Senate should consider making the last day for

Wednesday, December 18, 1974.

Academic Year 1975-76 (continued)

changes Friday of the second week of lectures. There would continue to be provision for changes later than this date with the approval of the Faculty and instructor concerned.

| | | |
|--------------|---|--|
| Dean Cowan |) | <i>That the last day for changes</i> |
| Dr. McGregor |) | <i>in courses in the First Term be</i> |
| | | <i>Friday of the second week of</i> |
| | | <i>lectures.</i> |

Following a brief discussion the motion was put and carried.

Faculty of Arts (See Appendix 'C')

A list of courses to be offered in Intersession 1975 was circulated for information.

Faculty of Education (See Appendix 'C')

A list of courses to be offered January-April 1975, May-July 1975 and Summer 1976 was circulated for information.

Faculty of Graduate Studies (See Appendix 'C')

A list of Intersession evening credit course proposals was circulated for information.

Notice of motion re term of office of Deans

The following notice of motion, for discussion at the January 22, 1975 meeting of Senate, had been received from Dr. Epstein: -

Wednesday, December 18, 1974.

Notice of motion re term of office of Deans (continued)

"That the terms of reference of the joint Senate-Board Committee on the Selection of Deans include the question of the term of office of Deans."

Other Business

1. Mr. Funt gave notice of the following motion: -
"That Senate accept as policy the full disclosure of student election results by publication of numbers of votes cast for the various candidates."
2. A query was raised by Mr. Funt concerning the architectural plans and siting of the new library data processing centre. The Chairman suggested that Mr. Funt confer with him on this matter.
3. Concern was expressed regarding books on sale in the Bookstore which students had paid full price for in September but would not be using until the second term. It was suggested that the matter be referred to the Ad hoc Committee on the Bookstore.
4. Concern was also expressed that in some cases examination papers had been distributed 15 minutes late and students had therefore lost 15 minutes of the time allowed for examinations.
5. The following notice of motion was given by Dr. Cavers: -

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Other Business

5. (continued)

"That Senate establish the following regulations for the University: -

Take home examinations shall not contribute in total more than 20% of the final mark in any course."

6. Mr. Thom gave notice of the following motion: -

"WHEREAS

Effective alumni involvement in the University's academic governing body has been a tradition which has added a knowledge from the community into the academic decision making at U.B.C. and has helped to create a strong Alumni Association through giving the graduates a voice in the University affairs through a franchise which has created a strong graduate tie with the University which should not be weakened and,

WHEREAS

Convocation Senators with the knowledge gained in participation have served the university both during and long after their term as Senators by interpreting the University to the community and,

WHEREAS

The number of Convocation Senators has been reduced from 15 to 4 under the new Universities Act and,

WHEREAS

Much of the work of the University Senate is conducted "in committee" and the limit of 4 Convocation Senators precludes participation in this important function,

BE IT RESOLVED THAT:

This Senate increase by 11, the number of Senators to be elected by Convocation through Section 35 (2) (1)."

Wednesday, December 18, 1974.

Other Business (continued)

7. Mr. Osborne gave notice of the following motion: -
"That Senate establish a committee to consider specific study of the examination policies and practices generally with emphasis on Christmas examinations."
8. The Chairman paid tribute to Mrs. Field and to Mr. Trevino for their services as Senate representatives on the Board of Governors.

Tributes Committee

Senate concurred with the recommendation of the committee that Mrs. A. G. Birkett be granted the status of Professor Emerita of Education.

Dr. McGregor informed Senate that the following persons had accepted invitations to receive honorary degrees at the 1975 Congregation: -

William M. Armstrong
Carl E. Borden
Roy Daniells
John F. McCreary
Nathan T. Nemetz

The meeting adjourned at 9.45 p.m.

The next regular meeting of Senate will be held on Wednesday,
January 22, 1975.

Secretary

Confirmed,

Chairman

Wednesday, December 18, 1974.

APPENDIX 'A'

New Awards Recommended to Senate

The Joseph Gibbs Memorial Bursary - A bursary of \$100 has been made available by Mr. and Mrs. Alfred Groberman in memory of Joseph Gibbs who was associated with the firm of Adams Pharmica Ltd. The award will be made to a needy student in the Faculty of Pharmaceutical Sciences.

The Robert Lee Scholarship - A scholarship of \$200, gift of Mr. Robert Lee, a graduate of the Faculty of Commerce and Business Administration, U.B.C., is offered annually to students in Commerce and Business Administration who are taking the Urban Land Economics option, have high academic standards, and are deserving of assistance to further their education. The award will be made on the recommendation of the Faculty.

Course and Curriculum Proposals

B = minor changes

Agricultural Sciences

Animal Science

| | | | | |
|---|---------|-----|---|--|
| B | Changes | 258 | - | change in description and hours |
| | | 323 | - | change in prerequisite (now Animal Science 321 (or equivalent) and 322.) |
| | | 425 | - | change in units (now 3 units) |

| | | | |
|---|---------|-------|---------------------------------|
| B | Changes | 416 - | change in title and description |
| | | 425 - | change in units (now 3 units) |

A Change 416 - change in number, title and description, now: -
415 (1½) Design in Landscape I

| | | |
|---|---------|--|
| B | Changes | 324 and 325 – change in title and description |
| | | 331 – change in description |
| | | 425 – change in description and units (now 3 units) |
| | | 436 – change in description |
| | | 438 – change in number and description |
| | | 439 – change in number, title, description and hours |

A Change Canadian Studies Concentration
First and Second Years to read:
 (a) 6 units of course work significantly Canadian
 in content or approach.

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APPENDIX 'B'

Course and Curriculum Proposals

FACULTY OF EDUCATION

Secondary Division

- A Change Canadian Studies Concentration
First and Second Years to read (continued)
 (b) 6 units of first or second year course work in ANTH, ASIA, CLST, ECON, HIST, HIST FINA, HIST MUSC, PHIL, POLI, SLAV, SOCI or URST.
 Note: Students combining this concentration with a Social Studies Concentration may apply no more than 3 units of course work for credit in both concentrations.
- B Changes Social Studies Concentration (emphasis on Social Sciences) to read:
 Recommended this Concentration be combined with History or Geography emphasis. (Where this is done, no more than 3 units of course work for credit in both concentrations may apply).
Industrial Education - Addition of phrase "Organization for instruction" to the course description of each of the following: EDUC 230, 252, 350, 351, 354, 357, 359, 360, 450, 451, 452, 453, 457, 463, 467.
Mathematics Education - Add: EDUC 491 to:
 List of available electives for the One-year Program for Graduates.
 List of electives for Fifth Year regular program (Secondary).
Art Education, Major
 Add: Fifth Year: -
 Professional year, no Art Education studio courses may be taken this year. Studio courses continued during practice teaching.
Librarianship Concentration - now to read:
Third and Fourth Years: 12 units consisting of:
 (a) EDUC 381, 383, 385, 387
 (b) 3-4 units selected from EDUC 384, 386, 388
 (c) 1½-3 units selected from EDUC 414, 472, 494, 495, 496.

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF EDUCATIONSecondary Division

B Changes (continued)

Admission - Section 3.

Delete asterisk against library

Academic Concentrations, Majors and Honours for
Secondary TeachersDelete asterisk against: Library and Earth and
Space ScienceBiological Sciences, Concentration and Major
Second, Third and Fourth Years

(a) Delete: BOTA 305, MICB 201, ZOOL 305 and 301

Add: BOTA 301 and ZOOL 205

(b) Delete: ZOOL 204

Add: ZOOL 304

(c) Delete: ZOOL 401

Add: ZOOL 403, 412.

Earth and Space Sciences ConcentrationGroup A to read: At least 3 units from ASTR 200,
420 or GEOP 210

Group B: Insert GEOL 327

Group C: Insert GEOP 210

Add to present penultimate paragraph after ASTR 200:
"or GEOP 210"Add as new last paragraph: "Only one of the English
at the 200 level or 303 is required."Earth and Space Sciences Major

Add GEOP 210 to list

Chemistry, Concentration and MajorAdd "or 335 (3)" after 320 (1) in both Senior Years
(Concentration) and Second, Third and Fourth Years
(Major)Mathematics Concentration to read:Senior Years MATH 310, 311 and at least 3 more units
of Mathematics to be selected from MATH 205, 301, 305,
312, 318, 322, 445Mathematics Major to read:First and Second Years MATH 100, 120, 121, 200, 205,
221, 222 and CPSC 210

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF EDUCATIONSecondary Division

- B Changes Mathematics Major to read: (continued)
 Senior Years Mathematics 310, 311 and at least
 7 more units of Mathematics to be selected from
 MATH 301, 305, 312, 318, 322, 445
- EDUC 332 - change in hours to (3-0; 3-0)
 389 - change in course description
 432 - change in title and hours; will now read:
 432 (3) Psychology of Adolescence

Elementary Division

- A Changes EDUC 473 - change in number and title; now reads:
 EDUC 305 (3) Curriculum and Instruction
 in Developmental Reading in
 the Elementary School
- 437 - change in description, units and hours;
 now reads:
 EDUC 437 (1½ or 3) Teaching Maladjusted
 Children
- B Change 416 - addition of (1) laboratory hour

- A Changes Section A
 The Four-Year Program
 Second Year to read:
 Second Year (1975-76 only)
 English at the 200-level
 Prerequisite or elective
 Academic Electives (ENG 303 strongly recommended)
 EDUC 297 and 305

A question arose re the offering of 305 ahead of 310 and it was agreed that Child Development and Development in Reading should be offered in the same year and an attempt would be made to arrange this.

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF EDUCATIONElementary Division

A Changes

Section A (continued)Third and Fourth Year

Program changed to make it possible for Third Year students to include EDUC 305 and in-term blocks of student teaching.

B Changes

Fourth Year, regular

Change in wording for clarification.

Transferring to Third Year

English 303 has been deleted as a compulsory course so that EDUC 305 can be included. Other minor changes made for clarification.

Section CProgram for Candidates Holding a Teaching Certificate

Delete: Honours Program for B.Ed. (Elem.) Degree

Art Education Concentration and Major

Professional year imposes necessity to change course sequences.

Mathematics Education Concentration to read as follows:

MATH 100, 121, EDUC 372, 373, 488, 485 and 3 units of electives to be chosen from MATH 120, 130, 140, 205, 221 and 222.

Mathematics Education Major

Third and Fourth Years to read as follows:

EDUC 372, 373, 488, 485; MATH 120, 310, 311 and 6 units of electives to be chosen from MATH 140, 205, 312, 318, CPSC 210

Music Education Concentration

Third and Fourth Years - change to:

... 3 units from MUED 104 ...

Science Education Major

Third and Fourth Years - change to read as follows:

EDUC 380, 409, 3 units chosen from one of the sciences named above and not previously taken or GSED 309; 9 units of elective science courses approved by the Science Education Department. (GEOP 310 is recommended).

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF FORESTRY

- A New courses FRST 373 (2) Principles of the Design of Forestry Structures and Mechanisms
 FRST 426 (3) Forest Rangeland Management
 FRST 443 (1½) Remote Sensing in Forestry
 FRST 494 (1) Forest Landscape Analysis and Design
- B Changes FRST 270, 273 - change in description
 FRST 302 - change in lab hours
 FRST 351 - change in title and description
 FRST 395 - change in description
 FRST 430 - change in units and hours
 FRST 442 - change in description, title and hours
 FRST 463 - add prerequisite (FRST 373)
 FRST 481, 482 - addition to description
 FRST 491 - change in title and description
 FRST 492 - change in description and hours
- A Deletion FRST 473

FACULTY OF GRADUATE STUDIES

- A New courses Physiology 521 (1½) Advanced Topics in Renal Physiology
 Physiology 522 (1½) Advanced Topics in Cardiovascular Physiology
 Physiology 523 (1½) Advanced Topics in Gastrointestinal Physiology
 Physiology 524 (1½) Advanced Topics in Endocrinology
 Physiology 526 (1½) Advanced Topics in Neurophysiology
 Physiology 527 (1½) Advanced Topics in Respiratory Physiology

FACULTY OF PHARMACEUTICAL SCIENCES

- A New course PHAR 441 (1½) Advanced Laboratory in Pharmacology
- B Change Under heading "Promotion Requirements", Calendar pages 265/266; after Item 4, page 266 insert new Item 5 as follows: (subsequent numbering to be changed accordingly)

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APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF PHARMACEUTICAL SCIENCES

B Change (continued)

5. A student who fails to reach a pass standing in the Dispensing section of Pharmaceutics 310, will receive a standing of 'T' for the course. Provided other promotion requirements are satisfied, the student will be permitted to register in the Fourth year but will be required to repeat the Dispensing section of 310 and take all necessary tests and examinations both theoretical and practical pertaining thereto. On the satisfactory completion of the Dispensing section of 310, a grade will be assigned for the entire Pharmaceutics 310 course at the end of the Fourth year. In the event of failure to reach a satisfactory standard by the end of the Fourth year, the degree will not be awarded until evidence is produced that a satisfactory standard has been attained.

SCHOOL OF PHYSICAL EDUCATION AND RECREATION

- | | | |
|---|------------|---|
| A | New course | Physical Education 423 (1) <u>Wrestling Coaching</u> |
| A | Changes | <u>The Bachelor of Physical Education Degree Program</u> <u>Option A</u> <u>Fourth Year</u> Present calendar entry: "Electives: Physical Education Theory.....3-6 Physical Education 462..... 1½" Proposed calendar entry: "Electives: Physical Education Theory....4½-7½" <u>Physical Education Activity</u> Required courses for all students on Option A and Option B Present calendar entry: "One Course from Area II (Dance)" Proposed calendar entry: "Physical Education 240 or 241 (see Note 1)" |

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsSCHOOL OF PHYSICAL EDUCATION AND RECREATIONA Changes Physical Education Activity (continued)Physical Education 240 (1) DancePhysical Education 241 (1) Contemporary Dance I

Note 1: It is strongly recommended that Women students complete 2 units of Dance, one of these being P.E. 241.

SCHOOL OF REHABILITATION MEDICINE

A Changes Revisions in numbering of Clinical Training and Practice courses:

| | |
|----------|-----------------------------------|
| 211 (1½) | <u>O.T. Clinical Practice I</u> |
| 212 (1½) | <u>P.T. Clinical Practice I</u> |
| 309 (1) | <u>O.T. Clinical Practice II</u> |
| 310 (1) | <u>P.T. Clinical Practice II</u> |
| 311 (2) | <u>O.T. Clinical Practice III</u> |
| 312 (2) | <u>P.T. Clinical Practice III</u> |
| 409 (3) | <u>O.T. Clinical Practice IV</u> |
| 410 (3) | <u>P.T. Clinical Practice IV</u> |

Old 409 - change in number, now 408

Delete - 308 and old 408

Note:

On satisfactory completion of the B.S.R. a student must complete a senior clinical internship of sixteen weeks in order to qualify for membership in the Canadian Occupational Therapy Association and the Canadian Physiotherapy Association. Eight of these are spent in occupational therapy departments and eight in physiotherapy departments.

FACULTY OF SCIENCEBiology

| | | | |
|---|-------------|---------------|--|
| A | New courses | MRNE 401 (3) | <u>Special Topics in Marine Biology</u> |
| | | MRNE 402 (1½) | <u>Special Topics in Marine Biology</u> |
| | | MRNE 435 (3) | <u>Introduction to Biological Oceanography</u> |

- A Changes GEOL 410 - change in number and description; now reads:
GEOL 435 (11) Field Geology

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF SCIENCEGeological Sciences (continued)

- B Changes
- GEOL 300 - change in prerequisites to read:
GEOL 105, 107 or 150
 - GEOL 312 - change in prerequisites to read:
GEOL 105, 107 or 150
 - GEOL 415 - change in prerequisites to read: GEOL
314 or permission of the Head of the
Department
 - GEOL 314 - change in term offered
 - GEOL 320 - change in hours
 - GEOL 342 - clarification of calendar description
re hours
 - GEOL 404 - change in title; now reads:
GEOL 404 (1½) Structural Geology II

Geophysics and Astronomy

- A Deletions
- GEOP 301 (3) Waves and Seismology
 - GEOP 302 (3) General Geophysics
 - GEOP 402 (1) Applied Geophysics Laboratory
 - GEOP 403 (1) Geochronology
 - GEOP 415 (3) Geophysical Analysis
- A New courses
- GEOP 220 (1½) General Geophysics
 - GEOP 320 (1½) Introduction to Theoretical Geophysics
 - GEOP 321 (1½) Seismology
 - GEOP 322 (1½) Time Series Analysis in Geophysics
 - GEOP 420 (1½) Potential Methods
 - GEOP 421 (1½) Applied Geophysical Laboratory
 - GEOP 422 (1½) Geophysical Instrumentation
 - GEOP 423 (1½) Geochronology and Isotope Geophysics
 - GEOP 425 (1½) Geophysics Seminar
- A Changes
- GEOP 449 (2) - reduction in unit value to 1½
 - GEOP 412 - change in number, unit value and hours;
now reads:
GEOP 424 (1½) Geomagnetism and
Space Plasma Physics
Hours (3-0; 0-0)

A Changes ZOOL 414 - change in description, units and hours;
now reads:
ZOOL 414 (3) Marine Invertebrate Zoology
Hours (2-3; 2-3)

Wednesday, December 18, 1974.

APPENDIX 'B'Course and Curriculum ProposalsFACULTY OF SCIENCEZoology

A Changes (continued)

ZOO L 417 - to be offered as 1½ unit course in Second Term only

A New course ZOO L 314 (1½) Molecular Developmental Biology
 ZOO L 407 (1½) Cell Differentiation
 ZOO L 427 (1½) Molecular and Theoretical Aspects
 of Morphogenesis

B Changes ZOO L 304 - addition of BIOL 200 and 201 as
 prerequisites with BIOC 410 highly
 recommended as concurrent
 ZOO L 404 - change in course description only
 ZOO L 406 - change in course description only

Wednesday, December 18, 1974.

APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF ARTS - Intersession 1975

| | | |
|----------------------|------------|---|
| ANTH | 201 (3) | <u>Ethnic Relations</u> |
| ANTH | 414 (3) | <u>Economic Anthropology</u> |
| ASIA | 435 (3) | <u>Modern Japanese Novels in Translation</u> |
| ECON | 100 (3) | <u>Principles of Economics</u> |
| ECON | 490 (3) | <u>Applied Economics</u> |
| ENGL | 100 (3) | <u>Literature and Composition</u> |
| ENGL | 201 (3) | <u>A Survey of English Literature from Chaucer to 1914</u> |
| ENGL | 204 (3) | <u>Short Fiction</u> |
| ENGL | 301 (1½) | <u>Practical Writing</u> |
| ENGL | 302 (1½) | <u>Advanced Practical Writing</u> |
| ENGL | 303 (3) | <u>English Composition</u> |
| (2 or more sections) | | |
| ENGL | 308 (3) | <u>History of the English Language</u> |
| ENGL | 321 (3) | <u>Approaches to Poetry</u> |
| ENGL | 365 (3) | <u>Shakespeare</u> |
| ENGL | 440 (3) | <u>Canadian Literature</u> |
| ENGL | 452D (3) | <u>Studies in American Literature: The American Renaissance</u> |
| FINA | 125 (3) | <u>History of Western Art</u> |
| FINA | 181 (3) | <u>Studio 1</u> |
| FINA | 339 (1½-3) | <u>19th and 20th Century Art</u> |
| FINA | 397 (3) | <u>Directed Study Abroad - Section 1 - London</u> |
| (2 sections) | | Section 2 - Florence |
| FREN | 402 (3) | <u>Advanced Studies in French Language and Style</u> |
| FREN | 418 (3) | <u>Literatures of the French-Speaking World</u> |
| GEOG | 351 (1½) | <u>Geography of Urbanization (Tentative)</u> |
| GERM | 430 (3) | <u>German for Reading Knowledge</u> |
| HIST | 413 (3) | <u>The Reformation</u> |
| HIST | 423 (3) | <u>Economic History of Modern Japan</u> |
| HIST | 438 (3) | <u>History of the Soviet Union</u> |

Wednesday, December 18, 1974.

APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF ARTS - Intersession 1975 (continued)

| | | |
|------|-------------|---|
| ITAL | 100 (3) | <u>First Year Italian</u> |
| LING | 445 (3) | <u>Socio-Linguistics</u> |
| PHIL | 100/410 (3) | <u>Introduction to Philosophy/Philosophical Problems</u> |
| PHIL | 250/350 (3) | <u>Epistemology & Metaphysics</u> |
| PHIL | 301 (3) | <u>Ethics</u> |
| PHIL | 317 (3) | <u>Philosophy of Religion</u> |
| POLI | 204 (3) | <u>International Politics</u> |
| POLI | 300 (3) | <u>Development of Political Theory: Basic Concepts & Issues</u> |
| PSYC | 200 (3) | <u>Experimental Psychology</u> |
| PSYC | 309 (3) | <u>Cognitive Processes</u> |
| PSYC | 316 (3) | <u>Methods of Research</u> |
| RELG | 341 (3) | <u>Islamic Art and Architecture</u> |
| SOCI | 220 (3) | <u>Sociology of Life-Styles</u> |
| SOCI | 270 (3) | <u>Introduction to Comparative Social Institutions</u> |
| SOCI | 361 (3) | <u>Social Stratification</u> |
| SOCI | 365 (3) | <u>Socialization</u> |
| SOCI | 473 (3) | <u>Sociology of Mental Illness</u> |
| SOCI | 475 (3) | <u>Social Conflict</u> |
| SPAN | 100 (3) | <u>First Year Spanish</u> |
| SPAN | 200 (3) | <u>Second Year Spanish</u> |

Credit Correspondence Courses

| | | |
|------|-----|--|
| ENGL | 340 | <u>The English Novel from Defoe to Hardy</u> |
| ENGL | 341 | <u>The English Novel from Joseph Conrad to the Present</u> |
| ENGL | 375 | <u>Milton</u> |
| ENGL | 451 | <u>A Survey of American Literature since 1860</u> |

Wednesday, December 18, 1974.

APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF ARTS - (continued)Courses being developed under the Provincial Government Grant to the Centre for Continuing Education for Innovative Programs:

| | | |
|------------------|-----|---|
| ANTH | 412 | <u>Introduction to Anthropological Problems</u> |
| ECON | 335 | <u>Economic History of Canada</u> |
| FINA | 251 | <u>History of the Art of the Americas</u> |
| FREN | 400 | <u>A Survey of French Literature in Translation</u> |
| HIST | 303 | <u>History of the Canadian West</u> |
| *POLI SC 200/201 | | <u>Government of Canada/Foreign Governments</u> |
| POLI SC 302 | | <u>Public Administration</u> |
| *PSYC | 100 | <u>Introductory Psychology</u> |
| *PSYC | 300 | <u>Behaviour Disorders</u> |
| PSYC | 301 | <u>Developmental Psychology</u> |
| PSYC | 304 | <u>Brain and Behaviour</u> |
| *PSYC | 308 | <u>Social Psychology</u> |
| *SOCI | 471 | <u>Social Control</u> |

*for degree-credit and for credit toward a Centre for Continuing Education Criminology Certificate.

FACULTY OF EDUCATIONJanuary-April 1975

| | | | |
|--|-----------|---|---------|
| EDUC | 382 (1-½) | Services and Programs in Elementary School Libraries | U.B.C. |
| -replacing EDUC 389 previously announced | | | |
| EDUC | 465 (1-½) | Technical Problem in Industrial Education | Burnaby |

Wednesday, December 18, 1974.

APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF EDUCATION (continued)May-July 1975 - Intersession

| | | | |
|------|-----------------|---|--------------------------|
| EDUC | 334 (3) | The Role of the Teacher in Home and Community | Richmond |
| | | or alternative course for pre-school majors | |
| EDUC | 404 (3) | Curriculum and Instruction In Social Studies | U.B.C. |
| EDUC | 430 (3) (tent.) | History of Education | U.B.C. |
| EDUC | 439 (1-½) | Instructional Television: Principals and Application of non-Studio Techniques | U.B.C. |
| EDUC | 470 (3) | Educational Sociology | U.B.C. |
| EDUC | 471 (3) | Diagnosis of Remediation in Elementary School Math. | off-campus location, tba |
| EDUC | 473 (3) | Developmental Reading in Elementary Grades | U.B.C. |
| | | -or its replacement if approved by Senate | |
| EDUC | 472/74 (3) | Guiding Reading Growth in Junior & Senior Secondary Schools/Developing Reading Programs for Junior and Senior Secondary Schools | U.B.C. |
| EDUC | 478 (3) | Teaching English as a Second Language | U.B.C. or Greater Van. |
| EDUC | 489 (3) | Applied Linguistics for Teachers | U.B.C. or Greater Van. |
| EDUC | 301/302 (1½/1½) | Introduction to Educational Psychology/Introduction to Educational Evaluation | U.B.C. |
| EDUC | 310/311 (1½/1½) | Growth and Development/ The Nature and Measurement of Learning | U.B.C. |
| EDUC | 332 (3) | Psychology of Adolescence - Development and Adjustment | U.B.C. |
| EDUC | 494 (1-½) | Communication Media Programs in Schools - Motion Picture Film and Television | U.B.C. |
| EDUC | 495 (1-½) | Still Photography in Education | U.B.C. |
| EDUC | 496 (1-½) | Motion Picture Production in Education | U.B.C. |

Wednesday, December 18, 1974.

APPENDIX 'C'Courses to be offered through the Centre for Continuing EducationFACULTY OF EDUCATIONMay-July 1975 - Intersession (continued)

| | | | |
|------|---------|-----------------------|--------|
| ENED | 311 (3) | Children's Literature | U.B.C. |
|------|---------|-----------------------|--------|

| | | | |
|------|-----------|---|--------|
| PHED | 364 (1-½) | Psychological Foundations of Sport and Physical Activity | U.B.C. |
|------|-----------|---|--------|

Summer 1976

| | | | |
|------|-----------|--------------------------------|-----------------------------|
| PHED | 360 (1-½) | Comparative Physical Education | directed study in Canada |
|------|-----------|--------------------------------|-----------------------------|

| | | | |
|------|-----------|----------------------------|--|
| PHED | 461 (1-½) | Physical Education Project | |
|------|-----------|----------------------------|--|

- to be offered at several Canadian Universities followed by attendance at the 1976 Olympic games in Montreal

FACULTY OF GRADUATE STUDIESIntersession Evening Credit Course Proposals

| | | |
|------|---------|--|
| AGEC | 504 (3) | <u>Extension Planning and Evaluation</u> |
|------|---------|--|

- restricted to students on graduate degree programs in Adult Education and Agriculture

- Instructor: Dr. J. Thornton

| | | |
|------|----------|---|
| EDUC | 580 (1½) | <u>Problem in Education - Information Systems and Knowledge Production and Utilization in Education</u> |
|------|----------|---|

- enrolment limited to 12 suitably qualified students

- Instructor: Dr. E. Summers