The fourth regular meeting of the Senate of The University of British Columbia for the session 1969-70 was held on Wednesday, December 10, 1969, at 8:00 p.m. in the Board and Senate Room, Administration Building.

Present: President W. H. Gage (Chairman), Dr. A. E. Aho, Miss D. Allen, Deputy President W. M. Armstrong, Dr. C. S. Belshaw, Mr. S. Black, Mr. C. B. Bourne, Mrs. A. Brearley, Mr. P. Brock, Dr. C. A. Brockley, Mr. D. M. Brousson, Dr. D. G. Brown, Dr. T. H. Brown, Mr. C. M. Campbell Jr., Dr. S. D. Cavers, Dr. J. D. Chapman, Dr. D. H. Chitty, Dr. R. M. Clark, Dr. M. F. Clarke, Dean G. F. Curtis, Dr. R. Daniells, Mr. J. Davies, Mr. A. Dobrey, Dr. C. W. J. Eliot, Mr. W. A. Ferguson, Dr. S. M. Friedman, The Hon. E. D. Fulton, Dean J. A. F. Gardner, Dr. W. C. Gibson, Dr. R. F. Gray, Mr. I. F. Greenwood, Dr. N. A. Hall, Dr. D. F. Hardwick, Dr. C. S. Holling, Mr. D. S. M. Huberman, Dr. S. Israels, Mr. R. W. Jacobs, Dr. R. F. Kelly, Dr. J. M. Kennedy, Dr. D. T. Kenny, Dr. W. D. Kitts, Mr. P. Ladner, Mrs. W. T. Lane, Dr. P. A. Larkin, Mrs. J. MacD. Lecky, Dean S. W. Leung, Miss E. K. McCann, Dr. A. J. McClean, Dean Helen McCrae, Dean J. F. McCreary, Dr. M. F. McGregor, Mr. K. R. Martin, Mr. J. R. Meredith, Mr. D. F. Miller, Dr. B. N. Moyls, Dr. J. M. Norris, Miss D. J. O'Donnell, Dean V. J. Okulitch, Mr. R. F. Osborne, Mr. S. Persky, Mr. P. Plant, Dr. R. A. Restrepo, Dean B. E. Riedel, Mr. J. V. Rogers, Dr. I. Ross, Dr. R. F. Scagel, Dean N. V. Scarfe, Dr. A. D. Scott, Mr. G. R. Selman, Dr. R. F. Sharp, Dean M. Shaw, Dr. J. H. G. Smith, Dr. J. D. Spouge, Mr. B. B. Trevino, Dr. G. M. Volkoff, Mr. K. Waldman, Dr. H. V. Warren, Dr. W. A. Webber, Dean P. H. White, Dr. W. E. Willmott, Rev. R. A. Wilson, Dr. W. D. Young.

Observers: Mr. J. A. Banham, Miss D. Hopper, Mr. T. A. Myers.

Messages of regret for their inability to attend were received from Chancellor A. M. McGavin, Mr. F. J. Cairnie, Dr. W. D. Finn, Mr. J. Guthrie, Mr. S. S. Lefeaux, Mr. E. O'Brien, Dr. J. K. Stager, Mr. B. Stuart-Stubbs, Mr. E. Wood.

Minutes of the November 1 special meeting

Dr. McGregor)
Dr. Kitts)

That the Minutes of the special meeting of November 1, having been circulated be taken as read and adopted.

Carried

Minutes of the November 12 regular meeting

Mr. Greenwood)
Mr. Dobrey)

That the Minutes of the third regular meeting of the Senate for the Session 1969-70, having been circulated, be taken as read and adopted.

Carried

Business Arising from the Minutes

Dr. Clark referred to a discussion under the item "other business" at the November 12 meeting of Senate during which some members had the impression that the Office of Academic Planning was maintaining dossiers on students. Dr. Clark made it quite clear that no such dossiers were being kept.

At the previous meeting Dr. Clark had been requested by Senate to find out the cost involved in doing a study of the sociological background of U.B.C. students. Dr. Clark reported that assuming we had 6,000 entering students the costs would be approximately $1,175.

Mr. Persky)
Dr. Gray)

That the motion, "That the Office of Academic Planning be requested to do a study of the sociological background of U.B.C. students", tabled at the previous Senate meeting be lifted from the table.

Carried

Mr. Persky)
Dr. Kelly)

That the Office of Academic Planning be requested to do a study of the sociological background of U.B.C. students.

It was agreed that as far as cost was concerned such a study would probably be feasible but it was pointed out that at the previous meeting questions were also raised about the significance of the study and the results that would come from it.

Business Arising from the Minutes

In amendment:

Dr. Hardwick)
Dr. Belshaw)

That the Nominating Committee be requested to select a committee to delineate the scope and nature of such a study.

It was agreed that the Director of the Office of Academic Planning should be a member of this Committee.

The amendment was carried.

The motion as amended was carried.

Notification of approval of Senate Recommendations - subject, where applicable, to the necessary funds being available

(i) That a Master of Engineering (M.Eng.) Master's Degree without Thesis be offered as recommended by the Faculty of Graduate Studies. (Page 5111)

(ii) That a Master of Education (M.Ed.) Degree be revised as recommended by the Faculty of Graduate Studies. (Page 5111)

Committee on Prizes, Scholarships and Bursaries

Dean Scarfe)
The Hon. E. D. Fulton)

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

Carried

Reports of Committees of Senate

Curriculum Committee

Dr. Hall)
Dean McCreary)

That the proposals of the Faculty of Graduate Studies for new courses in Paediatrics, outlined in Appendix B, page 5118, be approved.

Carried

Dr. Hall)
Mrs. Brearley)

That the proposals of the Faculty of Graduate Studies for new courses in Creative Writing, outlined in Appendix B, page 5118, be approved.

Carried

Dr. Hall)
Dr. Kelly)

That the proposals of the Faculty of Commerce and Business Administration for course changes, outlined in Appendix B, page 5138, be approved.

Carried

Dr. Hall pointed out that the work of the Curriculum Committee was complicated unnecessarily by the failure of faculties and departments to initiate consultation on curriculum changes prior to submission to Senate.

Dr. Hall)
Dr. Hardwick)

That curriculum changes submitted to faculties and thence to Senate include a statement specifying:

(a) the nature and extent of prior consultation with related disciplines, departments or faculties;

(b) the outcome of such consultation.

Carried

Committee on Enrolment Policy

Dean White presented the report of the Committee on Enrolment Policy. The Committee recommended that for 1970-71, the approximate maximum enrolments of students entering the First Year for the first time should be:

Reports of Committees of Senate

Committee on Enrolment Policy (Continued)

B.A. programme in the Faculty of Arts:	1,400
Faculty of Education (excluding Physical Education & Recreation):	450
Faculty of Science:	1,300
	3,150
Agricultural Science; Home Economics, Music; Physical Education and Recreation:	250
Total -	3,400

Dean White)
Mr. Dobrey) *That these figures be recommended to the Board of Governors.*

Dean White explained that the figure of 250, for those programmes of study not offered elsewhere, represented about the number that went into those studies in the current year, and that the figure could accommodate the modest increases that were anticipated.

Dr. Kenny stated that he had discussed the recommendation of the Committee with Heads of Departments in the Faculty of Arts and the vast majority of them were not in agreement with the suggested cut-back. They would prefer to leave enrolment in the Faculty of Arts as it is. Dr. Kenny felt that if this recommendation were passed it would cut some students off from fields of study which are not available at junior colleges.

Dean Shaw expressed concern regarding restriction of enrolment in the Faculty of Agricultural Sciences and the School of Home Economics as courses were not given at other universities in this Province. Dean White assured Dean Shaw that there would be no restriction apart from keeping the figures approximately the same as for this year.

Reports of Committees of Senate

Committee on Enrolment Policy (Continued)

Following further discussion, the motion was carried.

Dean White)
Dr. Willmott) *That Senate should take such action as is expedient to determine the criteria for enrolment size and the selection of applicants and to review the methods of regulating admissions.*

Carried

It was agreed that as it had not yet been decided to limit enrolment the motion should be recorded and brought up at some future meeting when Senate would be in a better position to say how this should be approached.

Dean White pointed out that the Committee on Enrolment Policy had now completed the work requested by Senate.

Dr. Hardwick)
Dean Gardner) *That the Senate Committee on Enrolment Policy be discharged with the thanks of Senate.*

Carried

Nominating Committee

At the previous Senate meeting the Nominating Committee had been requested to select a committee to study the situation of native Indians at U.B.C.

Reports of Committees of Senate

Nominating Committee (Continued)

Dr. Volkoff reported the following list of suggested members:

Mr. D. B. Fields

Dr. R. F. Gray

Dr. H. B. Hawthorn

Mr. D. S. M. Huberman

Dean Helen McCrae

Miss D. J. O'Donnell

Mr. A. V. Parminter

Mr. S. Persky

Dr. J. E. B. Ryan

It was agreed that Dean Helen McCrae should be the convener of the first meeting.

Dr. Volkoff)
Mr. Trevino) *That these people be appointed to a Committee to study the situation of native Indians at U.B.C.*

Carried

It was agreed that the Nominating Committee be given authority to co-opt further members.

The Nominating Committee had also been asked to suggest names of members to serve on a Committee to study Recommendation 7 of the Long-Range Objectives Report. The following names were suggested:

Mr. P. Brock

Dr. C. A. Brockley

Dr. D. H. Chitty

Dr. C. W. J. Eliot

Dr. I. S. Ross

Mr. K. Waldman

Dr. W. D. Young

Reports of Committees of Senate

Nominating Committee (Continued)

It was agreed that Dr. D. H. Chitty be asked to be the convener of the first meeting.

Dr. Volkoff)
Dr. Cavers) *That these people be appointed to a committee to study Recommendation 7 of the Long-Range Objectives Report.*

Senate agreed to a suggestion that Professor Daniells be added to the Committee.

The motion was carried.

Proposals of the Faculties (See Appendix 'B')

The Agenda Committee recommended that:

(i) all proposals for new courses and course changes be approved subject to ratification by the Senate Curriculum Committee

(ii) all proposals for new curricula such as that concerning the Bachelor of Fine Arts degree be referred to the New Programmes Committee

(iii) all changes of regulations in the Faculties be considered by Senate following explanation of them by the Deans of the respective Faculties

Following a discussion of the procedure to be followed it was agreed, as suggested by the Chairman, that new courses and course changes be referred to the Curriculum Committee and be brought to Senate for consideration at the next meeting of Senate.

Dr. Norris)
Mr. Osborne) *That course changes be received and referred to the Curriculum Committee and all proposals for New Programmes be received and referred to the New Programmes Committee for future reference to Senate.*

Proposals of the Faculties (Continued)

It was pointed out that Senators did have an opportunity to make recommendations or raise objections with the Curriculum Committee in which case the proposals were brought back to Senate but otherwise they went through. It was felt that this procedure should not be reversed.

Members of Senate were asked to communicate with the Curriculum Committee in writing by December 20th if they wished to comment on any of the proposals.

The motion was carried.

Faculty of Agricultural Sciences

The Dean explained that there were a number of changes and new courses, and that these had been discussed with other interested parties.

Faculty of Applied Science

Dr. Cavers stated that the recommendations represented new courses and changes in courses.

School of Architecture

Dr. Cavers reported that this submission was for new courses and course changes, and changes in Calendar statement.

Dr. Hall raised a query regarding the statement that Architecture 423 was an optional course and could not be taken for credit. He queried if this was a change in regulations which the Dean would be reporting on to Senate. It was suggested that the Acting Dean contact the School of Architecture and report to the Curriculum Committee.

Proposals of the Faculties (Continued)

Faculty of Arts

The Acting Dean reported that these submissions were mainly new courses and course changes but there was a proposal to offer a Bachelor of Fine Arts Degree and he felt that discussion of this should be postponed until the New Programmes Committee had examined it.

Faculty of Commerce & Business Administration

The Dean had no comment to make.

Faculty of Education

The Dean commented on the Cross-Cultural Education course for adapting teaching to the needs of Indian students which had been put on at the request of Senate and should be considered as a new course. He stated that there were course changes and changes in regulations.

Faculty of Forestry

The Dean referred to a change in policy under Admissions whereby a student must have an average of at least 60 per cent. He explained that this was in order to bring the admissions requirement in line with other faculties. There were also new courses and course changes in this submission.

Faculty of Graduate Studies

The Acting Dean had no comment to make.

Proposals of the Faculties (Continued)

School of Nursing

Miss McCann reported on the recommendations for course changes and programme revisions. It was recommended that the Nursing 'E' Programme (a diploma in Psychiatric Nursing) be dropped as there were no candidates. It was also stated that the Nursing 'C' Programme would be terminated after the 1971-72 session.

School of Rehabilitation Medicine

Concern was expressed at the lack of options in the curriculum for the four year degree. It was stated that there was reluctance on the part of professional associations to accept options.

Dr. Clark)
Dean McCreary) *That Senate request the School of Rehabilitation Medicine to inform the professional associations concerned with Rehabilitation Medicine that the Senate in principle disapproves of University programmes which leave no options for students in their senior years.*

The motion was carried.

The advisability of the requirement of Sociology courses rather than of Arts electives was raised.

Faculty of Science

The Dean reported the new courses and course changes. He also explained that the proposed new regulations governing the General Programme of the B.Sc. degree were meant to give the breadth of study that the term "General" implied.

Submission from Department of University Extension

Mr. Selman commented on the list of proposed courses to be offered during May to July. The Chairman raised the question of the cost of keeping the library open to acommmodate these courses from May to July and asked that the Librarian be made aware of what was taking place.

Mr. Selman)
Dr. Smith) *That the offering of the courses listed for the May-July period be approved.*

Carried

Mr. Selman then reported on a Certificate which was to be offered by the Department of University Extension in the area of Education of young children. The matter had been discussed in the Faculty of Education and the Faculty had approved the certificate programme. This report was for the information of Senate.

Report on Employment Opportunities for Graduate Students

The Chairman invited Mr. Smolensky to say a few words about a report that he had prepared for AUCC entitled "Employment Opportunities for Graduate Students. A Cause for Concern". Mr. Smolensky stated that one of the recommendations in the report applied to this University in setting up a research project to enquire into the job market. He said he hoped Senate would receive copies and that perhaps some recommendations would come forth from this body. The Secretary agreed to have copies circulated for the next meeting of Senate.

B. C. School Trustees Association's request for Senate membership

The Chairman explained that this matter had been before Senate in April of this year. At that time Senate was not willing to add to its

B. C. School Trustees Association's request for Senate membership (Continued)

membership. It was pointed out that membership of the B.C. Teachers' Federation had been discontinued when the Senate was resconstituted under the Universities Act, 1963.

Mr. Campbell felt that there was an argument in the case of the B.C. School Trustees, to have some representation on Senate and suggested that it might be useful to hear from the B.C. School Trustees Association on this subject.

There was considerable opposition to the suggestion. It was pointed out that two members of Senate are School Trustees.

Dr. Clark)
Dr. Belshaw)

That Senate, through the President, should write to the School Trustees declining to grant this request but explaining that the reasons in no way reflect upon the valuable services of the B.C. School Trustees Association.

Carried

Presentation to Senate of new business

Senate members were advised that items of business should not normally be introduced under "Other Business" with the expectation of action being taken at the meeting at which they were introduced. It was stated that "Notice of Motion" was appropriate at any meeting of Senate, as was submission of items for consideration ten days prior to a Senate meeting in order that the Agenda Committee might consider suitable disposition of them.

Other Business

Mr. Persky gave notice of the following motions:

1. That by September 1970, the University limit the number of students in any one course to no more than 25.

2. That Senate compile and make public a report on what the University is doing to combat the problem of "environmental collapse".

3. That the University establish a two-year diploma course for policemen and this be a mandatory requirement of membership on the police force.

4. That Senate investigate charges by the Women's Liberation Groups that female students and faculty do not have equal opportunities at University as compared to men.

5. That an "experimental" co-educational college dormitory be established for single male and female students to combat today's atmosphere of "sexual repression".

6. That Senate investigate all research presently being conducted on the campus for any U.S. military organization.

7. That an investigation be made of the charges against members of Simon Fraser University's P.S.A. department with a view to U.B.C. hiring fired or suspended P.S.A. faculty and teaching assistants should the S.F.U. situation prove to be a "political witch-hunt" as charged by the P.S.A. members.

Report of the Tributes Committee on Honorary Degrees

The gallery was cleared to allow Senate to discuss a matter concerning Honorary Degrees.

The committee recommended that an invitation be extended to Professor Raymond William Firth to receive an honorary degree at the Congregation, 1970.

Dean Curtis)
Dr. Scott)

That the degree of Doctor of Science, honoris causa, be conferred on Professor Raymond William Firth.

Carried

Dr. Warren requested that the figures of eligible voters and the number who actually voted during recent Faculty, Alumni and Student elections be made available to Senate members at the next meeting.

The meeting adjourned at 10:45 p.m.

The next meeting will be held on Wednesday, January 14, 1970.

Secretary

Confirmed,

Chairman.

APPENDIX 'A'

New Awards Recommended to Senate

The Professional Affairs Division of the College of Dental Surgeons of B.C. Scholarships

Two scholarships of $100 each the gift of the Professional Affairs Division of the College of Dental Surgeons of B.C., will be awarded annually to the two leading students in the Dental Hygiene Program at the completion of their first year of study. The awards will be made on the recommendation of the Faculty.

The John Emerson Memorial Scholarship

A scholarship of $50, established in memory of John Emerson by members of ACTRA, will be awarded annually at the discretion of the Music Department to an upper-division student showing promise in musical theatre.

The Department of Music Scholarship

One or more scholarships established by proceeds from special concerts will be awarded annually at the discretion of the Department of Music to a student exhibiting proficiency and promise in performance. Primary consideration will be given to those entering the Music program.

Change

Standard Oil Company of British Columbia Limited Fellowship

Increased from $1,500 to $2,500 per annum, from 1970 onwards.

APPENDIX 'B'

Course and Curriculum Changes referred to Senate Curriculum Committee

FACULTY OF AGRICULTURAL SCIENCES

Agricultural Sciences

	201	course description provided - Concepts and Resources in Agriculture II.

Agricultural Economics

New Course	310	Managerial Economics

Animal Science

Changes	200	number, title and description change, now: 258 Animal Production Systems
	318	Animal Production "Not offered 1970-71"
	322	now 322 and 323
	406	title and description change
	413	title and description change
	418	title and description change

Food Science

New Courses	406	Quality Control, Standards and Evaluation
	408	Advanced Food Process Science
	410	Chemistry of Food Systems
	412	Structural Bromatology
Changes	304	title change
	305	title change
Deletions	303, 403, 413 (413 becomes Poultry Science 406)	

Plant Science

New Courses	258	Introduction to Systematics of Economic Plants
	326	Methods of Plant Analysis
	331	Economic Entomology
	431	Ecology of Economic Insects
	432	Physiology of Economic Insects
	439	Pollution and Crop Production
Changes	304	title and description change
	305	title and description change
	405	change in title, unit value and description
	426	change in title, unit value and description
	435	change in number and description
	438	change in title, unit value number and description
Deletions	200, 202, 433	

FACULTY OF AGRICULTURAL SCIENCES (Continued)

Poultry Science

Changes	200	see Animal Science 200
	322	see Animal Science 322
	306	change in title, unit value and description
	406	change in number, title and description

Soil Science

Changes	303	change in number, title and description
	414	change in title and description
	416	change in title and description

FACULTY OF APPLIED SCIENCE

New Courses	Physics 158 Wave Phenomena
	Math 255 Differential Equations I
	Math 256 Differential Equations II
Changes	Physics 155 change in hours
	Physics 156 split into two 1½ unit courses - 156 & 158
	Chemistry 156 change in hours
	Math 350 change of content, title, hours, units and prerequisites
	Math 360 change of hours and units
	Math 362 change of hours and units
Deletions	English 298
	Math 250
	Ap Sc 250 see under Agricultural Engineering below

Agricultural Engineering

New Courses	Ap Sc 250 Biosystems for Engineers (see Ap Sc above)
	AE 355 Physical Properties of Plant and Animal Materials
	AE 490 Agricultural Waste Utilization
Changes	AE 365)
	AE 385)
	AE 471) change in hours title and description
	AE 472)
	AE 480)
Deletions	AE 393, 450, 465 and 470

Civil Engineering

New Course	480 Built Environment Studies

Amendments in italics submitted by Dr. R. W. Donaldson

FACULTY OF APPLIED SCIENCE (Continued)

Electrical Engineering

New Courses	EE 252	Introduction to Solid State Devices
	254	Digital Electronics
	256	Switching Circuits
	261	Engineering Electromagnetics
	352	Electrical Engineering Materials
	Physics 475	Introduction to Statistical Mechanics
Changes	*EE 251*	*change in hours*
	EE 353	*change in hours*
	EE 361	*change in hours and description*
	EE 367	change in hours
	EE 475	*change in description*
Deletions	Physics 356	
	EE 253	
	EE 371	
	EE 398	
	EE 453	

Mechanical Engineering

Changes	467	change in hours
	484	change in hours

Metallurgy

New Course	460	Metallurgical Transport Processes
Deletion	462	

Engineering Physics

New Courses	Physics 453	Topics in Modern Physics I - Applied Nuclear Physics
	Physics 454	Topics in Modern Physics II - Solid State Physics
Changes	Physics 351	change in description
	Physics 353	change in title, description and content
	Physics 354	change in title description and content
	Computer Science 350	deleted from third year Engineering Physics

Curriculum changes.

SCHOOL OF ARCHITECTURE

New Courses	C.E. 480	Built Environment Studies
	ARCH 423	Design for Social Units

Amendments in italics submitted by Dr. R. W. Donaldson

SCHOOL OF ARCHITECTURE (Continued)

Changes	ARCH	305	description change
		400	title and description change
		402	title and description change
		405	title and description change
		406	title and description change
		410	new number (formerly 411, 412 and 416)
		420	description change
		424	description change
		426	title and description change
		431	title and description change
		432	new number (formerly 431, M.E. 437 and E.E. 438)
		436	title and description change
		445	title and description change
		456	title and description change
	C.Sc.	251	description change

FACULTY OF ARTS

Anthropology & Sociology

New Courses	201	Ethnic Relations
	202	Contemporary Social Problems in Selected Areas
	206	Introduction to Southeast Asia (see Asian Studies 206)
	215	Civilizations of Southern Asia (see Asian Studies 215)
	330	Peasants and the Third World
	440	Applications of Anthropology to Modern Life
	303	Comparative Ethnography of Special Areas
	304	Ethnography of the Northwest Coast
	332	The Analysis of Myth
	401	Indians of North America
	403-9	Comparative Ethnography of Special Areas
	414	Economic Anthropology
	415	Religion and Society
	416	Political Anthropology
	417	Language and Culture
	418	Anthropological Statistics
	460	Cultural Ecology and Cultural Evolution
	470	Structural Theory in Anthropology
Changes	301	description change
	302	description change
	331	description change
	403	description change
	420	description change
	300	change in title, description and unit value
	413	change in number (formerly Anthropology 405)
	450	change in title
Deletion	441	

FACULTY OF ARTS (Continued)

Comparative Literature

Changes	500)	
	501)	
	502)	
	503)	change in unit value
	504)	
	505)	
	506)	

Economics

New Courses	432	Advanced Microeconomic Analysis
	442	Advanced Macroeconomic Analysis
	457	Economics of Labour Markets
	467	Economics of Labour Policies
Deletions	400 and 407	

English

New Courses	352	History of the English Language
	356	Chaucer
	376	Milton
	480	Studies in Mediaeval English Literature
	481	Studies in Renaissance English Literature
	482	Studies in the Eighteenth Century
	483	Studies in the Nineteenth Century
	484	Studies in British Literature of the Twentieth Century
	485	Studies in American and Canadian Literature of the Twentieth Century
	486	Studies in Criticism
	487	Studies in Drama
	488	Studies in Poetry
	489	Studies in the Novel
Changes	367	change in title
	491	change in title

Fine Arts

New Courses	238	Studio Art I
	335	Studio Art II
	435	Studio Art III

FACULTY OF ARTS (Continued)

Geography

New Courses	316	Trace Elements and the Human Environment
	396	Introduction to the Geography of Monsoon Asia
	464	Spatial Interaction
	481	Geography of Japan
	482	Geography of China
	483	Geography of South Asia
	484	Geography of Southeast Asia
Change	366	title and description change
Deletions	493 and 496	

German

	230	reinstated
New Course	101	Germanic Studies

Germanic Studies

Change	301	number, title and description change

History

New Courses	307	French Canada to 1774
	314	History of West Africa and Southern Africa
Changes	332	title change
	432	title change
	437	title change
	411	title change

Linguistics

New Courses	200	General Linguistics: Part I
	205	General Linguistics: Part II
Change	300	title and description change

Music

New Course	441	Vocal Techniques

FACULTY OF ARTS (Continued)

Philosophy

New Courses	333	Ancient Philosophy: A
	343	Ancient Philosophy: B
	353	History of Modern Philosophy: A
	363	History of Modern Philosophy: B
	405	Philosophy of Mathematics
	408	Philosophy of History
	420	Philosophy of Mind
	421	Philosophy of Law
	480	Philosophy of Action
	434	Topics in Philosophy of Science
	440	Space and Time
	450	Philosophy of Language
	453	History of Modern Philosophy: C
	460	Philosophy of Knowledge
	463	History of Modern Philosophy: D
	470	Philosophy of Perception
Deletions	303, 400, 403	

Political Science

New Courses	312	British Columbia Government and Politics
	321	Quebec Government and Politics
	417	Selected Problems in Peace Research
	418	Selected Problems of Canadian Politics
	419	Selected Problems of Contemporary Chinese Politics
	424	Selected Problems of Japanese Politics
	425	Selected Problems of Southeast Asian Politics
	428	Selected Problems in European Politics
	439	Totalitarian and Authoritarian Governments
Changes	322	change in number (formerly 403)
	311	change in number (formerly 410)
	315	change in unit value and description
	316	change in number and description (formerly 412)
Deletions	430 and 401	

Psychology

New Course	414	Research Methods in Child Psychology
Changes	100	description change
	200	description change
	316	description change
	413	change in number (formerly 315)
	416	change in number (formerly 306)

FACULTY OF ARTS (Continued)

Slavonic Studies

New Courses	Russian 280	Intensive Summer Workshop in Russian (Intermediate level)
	Russian 408	Seminar in Translating Technical Material
	Serbo-Croat 325	An Introductory Reading Course
Change	Serbo-Croat 425	change in title and description

Theatre

New Courses	230	Introduction to Film and Television
	351	Theatrical Makeup
	361	The Role: Interpretation and Characterization
	362	Advanced Speech and Movement
	431	Film Aesthetics and Criticism
	450	Stage Lighting
	462	Styles in Speech and Movement
Change	461	change in number and description

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION

Changes	354	change in unit value
	356	change in unit value
Deletions	357, 358 and 458	

FACULTY OF EDUCATION

Elementary Division

New Courses	190	General Science
	480	Research in Language Arts

FACULTY OF EDUCATION

Elementary Division (Continued)

Changes

Reading Education - minor changes only in arrangement of courses

Mathematics Education - introduction of a professional major in "Mathematics Education" to consist of Mathematics 100, 121, 372, 373, Education 482, 488 and Philosophy 302.

Also a double major in Mathematics Education to consist of:

First & Second Years - Mathematics 100, 120, 121, 200, 221, 222

Third & Fourth Years - Mathematics 310, 311, 372, 373, Education 482, 488 and 6 units from among Mathematics 318, 322, 312 and 412, Philosophy 302, or other approved Mathematics courses.

321 description change
409 description change
change in electives in First Year
changes in regulations concerning students in the A.2 programme (discontinued) transferring to the A.1 programme and requirements for A.1 programme

Secondary Division

New Course

479 Cross-Cultural Education (Native Indians)

Changes

Introduction of a Social Studies Concentration, with emphasis on Social Sciences

Replace "Geography" and "History" among list of concentrations by Social Studies (emphasis on Geography) and Social Studies (emphasis on History), respectively

Restatement of the Biological Sciences Concentration for the Second, Third and Fourth Years

Change in Creative Writing and English Concentration

Removal of foreign language and linguistics requirement

Guidance Concentration:- Sociology 200 added to Plan A

Change in Home Economics Concentration

FACULTY OF EDUCATION

Secondary Division

Changes (Continued)

Physical Education Concentration: Recreation 394 added as an elective of the upper years

Spanish Concentration: Spanish 105 (6 units) introduced as an alternative to requirement of the first two years

Music added as an acceptable Major

Replace Botany Major and the Zoology Major by a Biological Sciences Major

English Major - removal of the requirement of a second language to the 200 level or a linguistic alternative

Home Economics Major - change H.Ec. 310 to 312, and 243 to 343, and increase electives to 4½-6 from 4½

Industrial Education Major - various changes

Mathematics Major - Mathematics 307 and 308 both to be required

Music Major - addition of F.A. 101 or Music 120 as requirement in the first two years

Honours Degree requirements reduced from 84 to 81 units

Education 490 - title and description change

Forestry 300 to be accepted as an elective in a B.Ed. degree programme

Substitution of Education 305 or 307 for Education 404 for 1½ units credit

Candidates seeking admission to the One-year programme for Graduates, replace "Psychology" by "Guidance (Sociology or Psychology)"

FACULTY OF EDUCATION (Continued)

Diploma Programmes Change in name: "Diploma in Education of Children with Behaviour Disorders" - "Behaviour" replaces "Learning"

"Education of the Deaf" - change in requirements

Education 497 (practicum) now 399

FACULTY OF FORESTRY

The numbering system of all undergraduate and graduate forestry courses has been revised.

Revision of calendar statements concerning changes in regulations.

New Courses	130	Biometrics and Data Processing (replaces Plant Science 321 and Computer Science 201)
	312	Forest Soils
	335	Quality Control Systems in Forest Products Industry
	401	Tissue Repair Mechanisms in Trees
	452	Regional Field Studies in Forestry and Forest Products
	459	Analysis of Harvesting Operations
	491	Forest and Wildland Recreation
	492	Recreation Resources Planning and Development
Changes	251)	
	307)	
	351)	
	359)	changes in course, title and/or description
	363)	
	408)	
	415)	
Deletions	Forestry 362 and 372, Commerce 357, 321 and 458 Pl. Sc. 321, Comp. Sc. 201, Ec. 200	

Changes in First, Second, Third and Fourth year Curriculum.

FACULTY OF GRADUATE STUDIES

Chemical Engineering

New Course	573	Less Common Separation Methods
Changes	557	description change
	598	change in unit value and description

FACULTY OF GRADUATE STUDIES (Continued)

Civil Engineering

New Courses	C.E. 582	Structure of Hardened Cement Paste
	C.E. 583	Experimental Cement Technology
	C.E. 592	Topics in Photogrammetry
Changes	C.E. 546	now C.E. 546 and C.E. 547
	C.E. 590	and C.E. 591 - now C.E. 590
	C.E. 574	change in unit value

Mechanical Engineering

New Courses	559	Applied Elasticity
	561	Advanced Linear Elasticity
	588	Aerodynamic Noise
Changes	558	change in unit value
	564	change in description
	570	change in description
	587	change in title, unit value and description
	575	change in title
Deletion	561	

Asian Studies

New Courses	541	Research Methods and Source Materials in Indic Studies
	543	Topics in the History and Structure of Indian Languages
	546	Topics in Indian Literatures
	699	Ph.D. Thesis in Chinese or Japanese Studies (formerly 649)
Changes	501	(formerly 517)
	503	(formerly 508)
	508	(formerly 512)
	513	(formerly 510)
	521	(formerly 506)
	523	(formerly 505)
	528	(formerly 513)
	533	(formerly 511)
	553	(formerly 515)
	561	(formerly 509)
	599	(formerly 549)

FACULTY OF GRADUATE STUDIES (Continued)

Classics (Greek)

New Courses	530	Studies in Greek Archaeology
	540	Seminar in Greek Palaeography
Changes	521	title change
	525	title change
	535	title change
	545	title change
Deletions	522, 523, 524, 536	

Latin

New Courses	525	Seminar in Latin Literature
	540	Seminar in Latin Palaeography
	545	Seminar in Latin Epigraphy
Changes	521	title change
	530	title change
	535	title change
Deletions	522, 523, 531	

Geography

New Course	572	Spatial Interaction

Slavonic Studies

New Courses	Russian 503	Russian Linguistics Phonemics
	Russian 504	Russian Linguistics Morphophonemics
	Russian 505	Russian Linguistics Lexicology
	Russian 506	Russian Linguistics Syntax

Theatre

New Courses	530	Seminar - Relationships between Theatre and other Arts
	550	Seminar - Advanced Problems in Design and Theatre Architecture

Education

New Courses	501	Fundamentals of Human Learning and Motivation
	502	Verbal Learning and Instruction
	503	Conceptual Learning and Instruction
	504	Special Topics in Human Learning and Instruction
	603	Advanced Human Learning and Instruction
Change	540	title and description change
Deletions	501 and 530	

FACULTY OF GRADUATE STUDIES (Continued)

Computer Science

New Courses	504	Information Retrieval
	505	Simulation Methods
	507	Information Theory
	508	Computer Systems
	509	Advanced Programming Language I
	527	Coding Theory
	529	Advanced Programming Languages II
	534	Topics in Information Retrieval
	540	Topics in Applied Combinatorial Analysis
Changes	501	now 501 and 521
	502	now 502 and 522
	503	now 503 and 523
	532	title change
	538	change in number (formerly 534)
	530	change in number (formerly 538)
	549	change in unit value

Animal Resource Ecology

New Course	500	Resource Science Workshop

SCHOOL OF NURSING

Bachelor of Science in Nursing Programme

Programme revisions.

Diploma Programmes

(i) Nursing 'E' Programme to be deleted from the 1970-71 Calendar.

(ii) Nursing 'C' to be offered in 1970-71 only if a minimum of fifteen qualified candidates complete applications by May 1, 1970. Proposed that this programme be terminated after the 1971-72 session.

Changes	202	change in unit value
	327	change in description
Deletions	326 and 336 relating to the 'E' Programme	
Summer 1970	N. 356	Perspectives in Nursing

SCHOOL OF REHABILITATION MEDICINE

Course changes and revision of programme for combined course in Physical and Occupational Therapy.

New Course	201	Medicine I and Surgery I (formerly 101)
Changes	100	change in number - now 200
	200	change in number - now 300
	300	change in number - now 400
	201	change in number - now 301
	301	change in number - now 401
	103	change in number - now 203
	203	change in number - now 303
	303	change in number - now 403
Deletions	401 and 403 (old numbers)	
	102 (to be replaced by a pathology course)	

Rehabilitation Therapy

Changes	104	change in number - now 204
	204	change in number - now 304
	304	change in number - now 404
	105	change in number - now 205
	205	change in number - now 305
	305	change in number - now 405
	106	change in number - now 206
	206	change in number - now 306
	306	change in number - now 406
	107	change in number - now 207
	207	change in number - now 307
	307	change in number - now 407
	208	change in number - now 308
	308	change in number - now 408
	309	change in number - now 409
	308	(formerly 208) change in unit value
	408	(formerly 308) change in unit value
Deletions	404, 406 and 408	

FACULTY OF SCIENCE

Astronomy

Changes in the requirements for the combined honours in astronomy and physics programme, and in the majors astronomy programme.

Biochemistry

New Course	412	Biochemistry Conferences

FACULTY OF SCIENCE (Continued)

Biology

New Courses	302	Microscopy and Histology
	405	Marine Ecology
	335	Fundamental Genetics

Programme revisions to Third and Fourth years of Biology programme

Botany

Change	304	to be split into 2 new courses:-
		306 Structure and Evolution of the Bryophyta
		307 Structure and Evolution of Ferns and Fern Allies

Chemistry

New Courses	405	Biophysical Chemistry
	406	Polymer Chemistry

Computer Science

New Courses (1970-71)	311	Programming Languages
	402	Numerical Computation II
	404	Introduction to Information Retrieval
	405	Simulation and Optimization
	411	Compiler Design
	421	Introduction to Formal Systems
	422	Introduction to Artificial Intelligence
New Courses (1971-72)	302	Numerical Computation I
	448	Directed Studies in Computer Science
Deletion	300	

Undergraduate Degree Programmes Major and Honours

Geology

New Courses	206	Sedimentology
	402	Stratigraphy of the Western Cordillera
	403	Petrology of Chemical and Bioclastic Rocks
	405	Topics in General Geology
Changes	306	to be split into 2 new courses:-
		203 Principles of Palaeontology
		414 Stratigraphic Palaeontology
	204	change in number - now 304

Changes in requirements due to Mathematics change and to new Geology courses.

FACULTY OF SCIENCE (Continued)

Geophysics

Changes	301)	
	402)	changes in course descriptions and/or
	404)	prerequisites
	514)	

Mathematics

Mathematics 307 to be presented as a May-July, 1970 extra-sessional evening course.

Microbiology

New Course	448	Directed Research
Changes	416	split into 2 courses:-
		417 Principles of Applied Microbiology
		418 Industrial Microbiology
	509	description change

Proposed Fourth year programme for Major students in Microbiology

Physics

Proposed change in First Year Physics courses.

New Courses	105	Elementary Physics
	*120	Wave Motion, Mechanics and Electricity
	*125	Matter and Mechanics
	330	Elements of Physics
Changes	326	description change
	409	description change
	319	change in hours
Deletion	130	

Physiology

New Courses	303	Laboratory in Human Physiology
	430	Advanced Laboratory in Physiology
Deletions	431, 432, 433 and 434	

Zoology

Change	418	description change

Proposed new regulations for the General B.Sc. programme.

*Physics 120 should be 115
*Physics 125 should be 120