The fourth regular meeting of the Senate of The University of
British Columbia for the Session 1968-69 was held on Wednesday,
December 4, 1968 at 8:00 p.m. in the Board and Senate Room,
Administration Building.

Present: Dr. F. K. Hare (Chairman), Dean W. M. Armstrong, Dr. C. S. Belshaw, Mr. S. Black, Mr. C. B. Bourne, Mr. F. K. Bowers, Mr. D. M. Brousson, Mr. F. J. Cairnie, Dr. S. D. Cavers, Dr. J. D. Chapman, Dr. R. M. Clark, Dr. D. H. Copp, Dean G. F. Curtis, Mr. W. Ferguson, Dr. W. D. Finn, Mr. D. A. Freeman, Dr. S. M. Friedman, Dean W. H. Gage, Dean J. A. F. Gardner, Dr. W. C. Gibson, The Hon. Howard C. Green, Dr. N. A. Hall, Mr. W. L. Holland, Dr. H. L. Keenleyside, Dr. D. T. Kenny, Dr. P. Larkin, Rev. E. C. LeBel, Mr. S. Lefeaux, Dean S. Wah Leung, Mr. K. M. Lysyk, Dean Helen McCrae, Dr. C. A. McDowell, Dr. J. R. McIntosh, Mrs. H. J. MacKay, Mr. I. S. McNairn, Mr. D. F. Manders, Mr. John R. Meredith, Dr. Finlay A. Morrison, Dr. D. B. Moyle, Mr. D. Munton, Dr. J. M. Norris, Dr. H. P. Oberlander, Dean V. J. Okulitch, Dr. G. J. Parfitt, Dr. A. J. Renney, Dean B. E. Riedel, Mr. J. V. Rogers, Dr. G. Rosenbluth, Mr. Stuart Rush, Dr. A. D. Scott, Dean M. Shaw, Acting Dean C. E. Smith, Dr. J. H. G. Smith, Dr. M. W. Steinberg, Dr. R. W. Stewart, Mr. B. Stuart-Stubbs, Rev. W. S. Taylor, Dr. G. H. N. Towers, Mr. Mark Waldman, Mrs. B. E. Wales, Dr. H. V. Warren, Dr. Wm. A. Webber, Dean P. H. White, Mr. D. R. Williams, Acting Dean J. H. Young, Dr. S. H. Zbarsky.

Observers: Mr. J. A. Banham, Mr. T. A. Myers, Mr. K. Buttedahl,
Mr. J. F. Stott.

Messages of regret for their inability to attend were received from
Chancellor J. M. Buchanan, Dr. M. Bloom, Dean I. McTaggart-Cowan,
Mr. J. Guthrie, Dr. W. S. Hoar, Mr. V. J. Housez, Dean J. F. McCreary,
Mr. Justice J. MacDonald and Mr. D. F. Miller.

The Chairman called the meeting to order and stated that the
Information Officer had asked permission to record the proceedings of
Senate. Furthermore permission was requested by the Secretary to seat
39 people in the gallery for this meeting, rather than the usual 30.
Senate agreed to these requests.
Minutes of the Previous Meeting

Dean Gage )
Dean Okulitch )

That the Minutes of the third regular meeting of the Senate for the Session 1968-69, held on October 30, 1968, having been circulated, be taken as read and adopted, with the following Amendment:

Page 4008: Insert as a penultimate paragraph:

"Attention was drawn to the fact that no mention was made of the needs of the Geology Department. It was reported that this was the only university in British Columbia training professional geologists; that we could not even now supply the demand, and that in the successful landing of the new mines, British Columbia was dependent for maintaining the demand from 20 to 25 cents of every dollar earned in British Columbia. It was noted that Moscow University's showpiece building housed the three departments they considered most essential, namely Mathematics, Geology, and Geography."

Carried

Business arising from the Minutes

"Petition to the Senate of the University of British Columbia in support of a new Earth Sciences Building

"We, the undersigned students of Geology, graduates and undergraduates, are deeply concerned about the deplorable state of accommodation in the Department of Geology at present, and the absence of any provision for new facilities in the near future. In excluding Geology from the four new building projects under consideration, the Senate Committee on Academic Building Needs apparently has failed to recognize the critical need for a new Earth Sciences Building. Existing teaching space is severely congested; research equipment, laboratories and offices are dispersed among eleven structurally-inadequate buildings and huts; storage space is virtually non-existent; and technical shops are chaotically overcrowded. We urge the Senate Committee to give top priority to construction of an Earth Sciences Building. Canada's largest Department of Geology should not be housed in army huts."
Business arising from the Minutes

"Petition to the Senate of the University of British Columbia in support of a new Earth Sciences Building" (Continued)

The Petition was presented by a student senator, who reported that the Petition bore 811 signatures.

Following discussion, it was agreed that the petition be referred to the Academic Building Needs Committee.

Report on Status of Consideration of the Student Brief

The Chairman of the Committee to examine the Student Brief stated that the Senate would recall that the conversations between the two committees had been broken off, but the Student Council had reconsidered its position and decided to continue meeting with the Senate committee. The discussions involved an interpretation of the terms of reference. It was reported that matters were now on a fairly flexible basis. The two committees had met on the evening of December 3, 1968, at which time it had been decided to set up a number of small "task forces", as follows:

1. Academic and administrative appointments:
   Mr. Tobin S. Robbins; Dr. A. D. Scott, Dean M. Shaw (part-time)

2. Faculty Council and student discipline:
   Dr. C. S. Belshaw and Mr. David Zirnhelt

3. Student aid, scholarships and loans - financing student education:
   Mr. Dave Robertson

4. Housing for graduate and undergraduate students and physical planning and building for the University:
   Mr. Fraser D. Hodge and Dr. Wm. Webber
Business arising from the Minutes

Report on Status of Consideration of the Student Brief (Continued)

5. Students on governing bodies in the University:

Mr. Bud Abbott; Mr. D. M. Brousseon; Mr. D. F. Miller;
Mr. M. Waldman.

6. (a) Evaluation
   (b) Academic programme
   (c) Curriculum
   (d) Relationship between teaching and research in the
   University:

Mr. Michael H. Bjornson; Dr. J. D. Chapman, Mr. Frank W. Gregory;
Mr. Les Horswill; Mr. M. Keith Moore

These two committees expect to meet again on December 17, 1968, and
are also planning to meet once a week in the coming term. Before
discussions were temporarily broken off some measure of agreement had
been reached on discussing the problem of student discipline.

Mr. David Zirnhelt was invited to speak. He stated that the students
were pleased that discussions were now going on and would continue after
the beginning of January, 1969.

Page 4017 of the Minutes of October 30, 1968 - Appointment of a
Presidential Advisory Committee on Internal and External aspects
of University Government

The Chairman reported that the immediate task of this committee
would be to prepare a submission to the Perry Committee. He further
reported that an omission from the current agenda was the statement
prepared by the Committee of Deans that had already been forwarded to
Dr. Perry. A brief summary of the report was given.

Dr. Hall, Chairman of the Presidential Advisory Committee on
Internal and External aspects of University Government, stated that a
report of the Committee would be available soon.
Page 4017 of the Minutes of October 30, 1968 - Appointment of a Presidential Advisory Committee on Internal and External aspects of University Government (Continued)

Dr. Rosenbluth ) That the reports referred to above
Dr. McDowell ) be circulated to the Senate and

placed on the agenda of the next

meeting of Senate.

Carried

From the Board of Governors

(i) The Board resolved that the report on University Facilities for the Marine Sciences on the Pacific Coast of Canada be referred to Deputy President W. M. Armstrong for review in terms of short and long-range fiscal implications, for both operating and capital aspects of this programme; and that the President be authorized to release $2,000.00 from Operating Revenues to finance the work of the Committee during 1968-69 if required.

(ii) The Board gave authorization to the President to establish a Clients' Committee for the under-noted building facilities, the Clients' Committee to be instructed to proceed with the preparation of facilities lists for presentation to the Board:

Buchanan Extension
Multi-purpose Science Building - Stage I
Undergraduate Library Addition - Stage I
Faculty of Law Building

The Chairman agreed that the membership of the Clients' Committees be expanded to provide for student members.

(iii) Notification of approval of Senate recommendations:

(a) Second Year Dental Hygiene Programme as recommended by the Faculty of Dentistry.

(b) Increase from 2 to 3 units for Pharmacy 110 as recommended by the Faculty of Pharmacy.

(c) Commencing 1969-70 the First Year class in Law be limited to such a number that will result in a total enrolment in all three years which will not exceed 700, exclusive of graduate students, as recommended by the Faculty of Law, subject to periodic review.
From the Board of Governors (Continued)

(d) That the Department of Continuing Medical Education be changed to a Division of Continuing Medical Education in the Faculty of Medicine, as recommended by the Faculty of Medicine.

Report by the President

The Chairman asked for and received Senate's approval to include in this and future agendas an item "Report by the President".

Dr. Hare then reported on the recent newspaper headlines and television radio coverage concerning universities in British Columbia. He stated that this was not a calculated opening of a campaign, but the embarrassing consequence of a Law Faculty meeting at which he had spoken. Dr. Hare therefore decided it would be wise to follow this up with a press conference. He quoted from U.B.C. Reports of December 5, 1968, covering his press conference and also made reference to arguments in this publication concerning restrictions on enrolment and the allocation of capital funds.

Dr. Hare then spoke concerning public reaction to the press release which had been entirely hostile. He said that the question being asked by the business community and the public at large is: "Why should we build more university space when (1) the students in the university don't seem to be grateful and (2) the staff does not seem to be able to keep the students under control?"

Senate was assured that the criticism of the universities was being made by responsible and influential citizens, including members of the Alumni Association.
Report by the President (Continued)

It was agreed that the universities' case must be presented forcefully to overcome the public's lack of understanding of the universities' problems.

Mr. Munton  
Dr. Belshaw)  

That the Senate of the University of British Columbia strongly endorses and supports the recent statements of the President regarding the existence of an education crisis at British Columbia universities stemming from increasing enrolments and insufficient financial resources, and reaffirms the necessity and urgency of informing the general public of the Province as to the nature and seriousness of this crisis.

Carried

In answer to a query, the Chairman reported that public criticism of the University, as revealed in his mail, was not related to the question of limitation of enrolment, but rather to an impression that the University was unable "to manage its affairs".

It was suggested that any public relations campaign mounted by the University should stress the requirements of all British Columbia's universities, rather than just those of The University of British Columbia.

Committee on Prizes, Scholarships and Bursaries

A summary of new awards and changes in awards shown in Appendix A had been circulated.

Dean Gage  
Mr. Meredith  

That the new awards and changes in awards 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

New Programmes Committee

(a) Proposal to institute an M.Sc. degree in the field of Human Nutrition offered by the School of Home Economics

The Chairman reported that the subject matter of the proposed programme clearly fell in the field of science. The proposal provided for an interdisciplinary committee of the Faculty of Graduate Studies with representatives from the Faculties of Agricultural Sciences, Medicine and Science to supervise the programme in its early stages.

Mr. Bourne )
Dr. Moyle )

That Senate approve the proposal of the Faculty of Graduate Studies to institute an M.Sc. degree in the field of Human Nutrition to be offered by the School of Home Economics.

Carried

(b) Proposal to institute a Ph.D. programme in Slavonic Literature

The Chairman reported that assurances had been given that the existing members of the Department were able to undertake this new programme. It was planned to extend Ph.D. work to other areas, especially Linguistics, as soon as one or two senior scholars could be added to the Department.

Dr. Norris )
Mr. Bourne )

That Senate approve the proposal of the Faculty of Graduate Studies to institute a Ph.D. programme in Slavonic Literature.

Carried
Reports of Committees of Senate

Curriculum Committee

The Chairman reported that the Committee had considered the courses Anthropology 545 and Sociology 545 referred to it by Senate.

Dr. Hall  )  That Senate approve the new courses proposed by the Faculty of Graduate Studies - Anthropology 545 and Sociology 545.

Dr. Chapman )

Carried

Nominating Committee

(a) Membership of Continuing Education Committee

The following list of members was recommended to Senate:

Dean W. M. Armstrong  Dean V. J. Okulitch
Dr. Cyril Belshaw  Mr. G. R. Selman
Mr. R. M. Bibbs  Dr. R. F. Sharp
Professor S. Black  Dr. J. H. G. Smith
Mr. D. M. Brousson  Dr. R. W. Stewart
Mr. F. J. Cairnie  Dr. C. Verner
Mr. J. E. Currie  Dean P. H. White
Dr. G. W. Marquis  Dr. D. H. Williams
Dean J. F. McCreary  Dr. J. H. Young

Chancellor  )
President  )  ex officio
Registrar  )

It was agreed that the nominations be accepted with the addition of further members, to be decided by the President and the Chairman of the Nominating Committee. Among the additional members should be four students - possibly including the President of the Alma Mater Society and students in Continuing Education. It was also suggested that some women be included.
Reports of Committees of Senate

(b) Other Committees of Senate

It was reported that the Senate Nominating Committee recommends to Senate that student senators be nominated for membership on the committees as indicated:

Nominating Committee

(b) Other Committees of Senate (Continued)

Admissions
Mr. William A. Ferguson

Agenda
Mr. Stuart A. Rush

Curriculum
Mr. Mark Waldman

Long-Range Objectives
Mr. Don Munton

Liaison on Planning
Mr. Stuart A. Rush

Permanent Buildings
Mr. Don Munton
(Plus two other non-Senate student members)

Library
Mr. Don Munton

New Programmes
Mr. Don Munton

Dr. McDowell) )
Dr. Kenny

That the Senate approve having student senators as members on certain Senate Committees, as indicated, and that Senate also approve having a student senator on the Academic Building Needs Committee.

Carried

It was agreed that Mr. William A. Ferguson be asked to be the student senator on the Academic Building Needs Committee.
Reports of Committees of Senate

Nominating Committee

(b) Other Committees of Senate (Continued)

It was agreed that an additional student be added to certain committees, and two additional students to the Admissions Committee. This was left to the President and the Chairman of the Nominating Committee.

(c) Membership of Ad hoc Committee on Enrolment Policy

The following list of members was recommended to Senate:

Dr. C. S. Belshaw  
Dean I. McT. Cowan  
Dean W. H. Gage  
Dr. D. T. Kenny  
Dean V. J. Okulitch  

Dr. R. Restrepo  
Dr. G. Rosenbluth  
Dr. C. E. Smith  
Dean P. H. White  
Dr. J. H. Young  

Chancellor  
President  
Registrar  

Mr. Munton  
Dean Armstrong  

That Senate approve the list of committee members, with the addition of Mr. Stuart Rush.

Carried

In further discussion it was agreed that the President and Dean Gage consider additions to the committee from representatives of professional faculties, the Alumni Association, and two or three students, possibly the President of the Alma Mater Society and the President of the Graduate Student Association or their nominees.

Senate expressed its hope that a report of this committee would be produced as soon as possible in view of the enrolment crisis.
Reports of Committees of Senate

Long-Range Objectives Committee

The Chairman of the Committee spoke to a preliminary report that had been circulated earlier.

Dr. Belshaw ) That the preliminary report
Dr. Norris ) of the Long-Range Objectives
committee be received.

Carried

Mr. Stuart Rush asked whether a study was being made of present space utilization - making use of buildings not now used. Dr. Belshaw stated that a study was being made of the relationship between the use of various types of space throughout the campus.

A lengthy discussion followed in which it was suggested that the committee had been concerned with the existing situation. The role of the University and the social relevance of its efforts had not yet been sharply defined, but the committee would be attempting to formulate a philosophy to guide the University in the future.

Dr. Hare thanked Dr. Belshaw for the preliminary report and congratulated him on the work done so far.

It was stated that the committee would appreciate comments, ideas and briefs from members of Senate by January 1, 1969.
Report of Senate representatives of the Senate Liaison Committee with the Board of Governors on Planning Permanent Buildings

The report had been circulated earlier.

Dr. Oberlander) That the report be received.
Dr. J. H. Smith)

Carried

After a lengthy discussion it was agreed that the report be taken into consideration by both the Long-Range Planning Committee and the Academic Building Needs Committee.

The three committees were urged to complement one another and not have unnecessary overlapping or duplication of effort.

Report of the Librarian

The Librarian's Report had been distributed for the October 30, 1968 meeting of Senate and comments on it by the Chairman of the Senate Library Committee had been circulated.

Mr. Stuart-Stubbs) That the Report of the Librarian, together with the letter from the Chairman of the Senate Library Committee, be received.
Dr. Norris)

Carried

Reference was made to Paragraph 4, Page 1 of the letter -

"The University has completely changed its study habits in the last five years from one depending primarily upon a text book and lecture notes, to one requiring more direct student participation in the use and analysis of sources."

It was emphasized that the nature of our educational system was changing from a teacher-oriented to a student-oriented one, and therefore
Report of the Librarian (Continued)

provision should be made for more independent study. It should be realized that these changes would affect the library vastly, and consideration should be given to the new types of facilities that would be needed.

Proposals from the Faculties

School of Architecture

Dean White )
Dr. Norris )

That the proposal from the School of Architecture to limit the size of the First-Year class, subject to periodic review, be referred to the Committee on Enrolment Policy.

Carried

It was agreed that all curriculum proposals be approved, subject to ratification by the Curriculum Committee. Comments on these proposals by Senate members were to be made to the Chairman of the Curriculum Committee by December 20, 1968. (Appendix B)

Faculty of Applied Science

Dean Armstrong )
Dean Okulitch )

That the curriculum and course proposals submitted by the Faculty of Applied Science be approved, subject to review by the Curriculum Committee. (Appendix B)

Carried

Faculty of Arts

Dr. Young )
Mr. Holland )

That the proposal to offer Asian Studies 335 Extra-sessionally in Japan in the summer of 1969 be approved by Senate.

Carried
Proposals from the Faculties

Faculty of Arts (Continued)

Dr. Young  
Mr. Holland )  
That the course and curriculum proposals be referred to the Curriculum Committee. (Appendix B)  
Carried

Dr. Young  
Dr. Belshaw )  
That the list of extra-sessional courses to be offered May/July, 1969 be approved by Senate.  
Carried

Faculty of Commerce and Business Administration

Proposal for a Baccalaureate degree in Accounting

This proposal was referred to the New Programmes Committee.

Faculty of Education

It was agreed to refer the new One-Year Diploma Programmes to the New Programmes Committee.

It was further agreed to refer the other items: (i) Changes in General Regulations (ii) Elementary Division proposals and (iii) Secondary Division proposals to the Curriculum Committee. (Appendix B)

Faculty of Forestry

It was agreed to refer the curriculum and course proposals to the Curriculum Committee. (Appendix B)

Faculty of Graduate Studies

(1) Proposal to change the title of the Master's degree in Agriculture from M.S.A. to M.Sc.

Dr. Moyls )  
Dr. Renney)  
That Senate approve the change in title of the Master's degree in Agriculture from M.S.A. to M.Sc.  
Carried
Proposals from the Faculties

Faculty of Graduate Studies (Continued)

(2) An explanation was given of the proposal to permit the offering of a Master's degree without thesis and of certain changes in the regulations for Masters' degrees.

The degrees to which this change would apply were given as M.A., M.Sc., M.A.Sc., M.S.A., M.B.A. and M.F.

Dr. Moyls
Dr. McDowell

That the proposal to permit the offering of a Master's degree without thesis, excluding the M.A.Sc. and the M.S.A., and proposed changes in degree regulations be approved, with provision for the new regulations to apply to students currently enrolled.

Carried

School of Home Economics

It was agreed that the proposal to replace the existing Foods and Nutrition programme by:

(a) An Honours programme in Nutrition
(b) A Major programme in Nutrition
(c) A Major programme in Dietetics

be referred to the New Programmes Committee.

It was agreed that the course proposals - two new courses proposed in Nutrition, otherwise minor changes - be referred to the Curriculum Committee. (Appendix B)
Proposals from the Faculties (Continued)

Faculty of Law

Proposals of the Faculty of Law consisted of (i) a calendar statement on limitation of enrolment, the principle of which had been approved earlier by Senate, (ii) a requirement that applicants take the Princeton Law School Admission Tests, and (iii) course changes and introduction of new seminars. (Appendix B)

Dean Curtis

Mr. Lysyk

That the three items proposed by the Faculty of Law be accepted by Senate.

Carried

After discussion, it was suggested that Items (i) and (ii) be referred to the Admissions Committee of Senate for a report back to the next meeting of Senate. The mover and seconder of the Motion agreed with the suggestion.

Faculty of Medicine

Proposed establishment of a Division of Biophysics within the Department of Anatomy

It was explained that the change was organizational only and did not indicate the introduction of a new study programme.

It was clear that the Department of Anatomy had no intention of monopolizing the study of Biophysics and that the establishment of the Division would in no manner be prejudicial to the offering in the future of studies in Biophysics by other departments.
Proposals from the Faculties (Continued)

School of Nursing

It was agreed that the proposals be referred to the Curriculum Committee. (Appendix B)

Faculty of Pharmacy

Dean Riedel  )  That the name of the Faculty of Pharmacy be changed to "The Faculty of Pharmaceutical Sciences".
Dean Okulitch  )

Carried

Dean Riedel  )  That the designation of the degree in Pharmacy be changed from B.S.P. to B.Sc.(Pharm.).
Dean Okulitch  )

Carried

School of Physical Education and Recreation

Dr. Smith  )  That the proposal to offer a degree of Bachelor of Recreation be referred to the New Programmes Committee.
Dr. Webber  )

Carried

Dr. Smith  )  That the 23 candidates for the B.P.E. degree be granted the degree.
Dr. Webber  )

Carried

School of Rehabilitation Medicine

It was agreed that the course proposals submitted by the School of Rehabilitation Medicine be accepted by Senate, subject to perusal by the Curriculum Committee. (Appendix B)
Proposals from the Faculties (Continued)

Faculty of Science

The proposal for a change in the procedure for determining degree standing was explained. The proposal was to determine degree standing on the required courses for the Honours or Major rather than upon all the courses of the final two years.

Dr. Okulitch) That the proposal from the Faculty of Science for a change in the procedure for determining degree standing be approved by Senate.

Carried

A brief explanation of the curriculum and course proposals was given. Underlying most of the changes was an attempt to break up large courses into smaller ones. It was agreed to refer these curriculum and course changes to the Curriculum Committee.

(See Appendix B)

Other Business

Public Relations

Mr. Rogers of Trail recounted his experience with the public reaction to the President's recent meeting with the Press. He was convinced that any public sympathy for the critical situation facing universities has been submerged by a growing resentment against the actions of radical students. He expressed the opinion that any immediate appeal to the public by the University was doomed to failure. It was his view that unless the majority of students take action to restore public confidence in the universities, the universities will suffer in their relationships with government.
Other Business (Continued)

Admissions Policy

Mr. Munton
Mr. Waldman) That the Senate Admissions Committee be requested to review the present enrolment process, the Committee's own role in that process, and the existing enrolment requirements with respect to students transferring from other post-secondary institutions, and that this report be presented, if at all possible, to the January 1969 meeting of Senate.

Carried

It was reported that enquiries made with Vancouver City College, Selkirk College and Capilano College had not revealed difficulties in the transfer of students from these institutions to the University.

Reform at Laval University

Mr. Brousson presented to the Chairman of Senate a document in French, outlining proposals for reform at that institution.

The meeting adjourned at 11:30 p.m.

The next meeting will be held on Wednesday January 8, 1969, at 8:00 p.m.

Confirmed

Chairman.

Secretary
APPENDIX 'A'

Summary of New Awards and Changes in Awards
Recommended to Senate

New Awards

Charles Brooks Memorial Bursary

A bursary of $100, given as a memorial to Charles Brooks by his wife, is
offered to students entering the final year of Mineral Engineering. The
award will be made to a student with a sound academic record who needs
financial assistance.

The Ghent Davis Memorial Scholarship

A scholarship in the amount of $750, gift of Mrs. Frances Davis in memory
of her husband Ghent Davis, is offered to an undergraduate or graduate
student in Commerce and Business Administration. The award will be made
to a student who, though not necessarily among the leaders of his class,
is in the opinion of the Faculty deserving of financial assistance. At
the discretion of the Faculty the sum may be divided between two students.

Changes in Awards

Health Officers' Prizes

These have been replaced by prizes to be known as:

The G.F. Amyot and S. Stewart Murray Prizes

Two cash prizes of $100 each have been provided by a fund established
and maintained by donations from the Health Officers of British Columbia
to honour these two public health physicians who contributed greatly to
the development of public health services in British Columbia and
assisted in the establishment of the Department of Health Care and
Epidemiology, Faculty of Medicine. The prizes will be given to students
who have demonstrated leadership and academic or research ability,
selected by the Department after consultation with the Health Officers'
Council of British Columbia. The S. Stewart Murray prize will be awarded
for meritorious scholarship in the field of public health, preventive
medicine or epidemiology; the G. F. Amyot prize will be awarded for
meritorious scholarship in the field of health care research and
administrative medicine.
Appendix 'B'

Course and Curriculum Changes referred to Senate Curriculum Committee

FACULTY OF APPLIED SCIENCE

First Year

New Courses
Mathematics 151 (1\(\frac{1}{2}\)) Linear Algebra
Mathematics 156 (1\(\frac{1}{2}\)) Vector Calculus

Change
Mathematics 155 - hours and description changed

Second, Third and Fourth Years

Agricultural Engineering

Second Year
Delete Biology 101
Move Chemistry 253 from third year to second year.
Add Mathematics 251

Third Year
Move Biology 101 from second year to third year
Delete Chemistry 253, Plant Science 321, M.E. 372
Change M.E. 365 and M.E. 479 from compulsory to optional courses.
Add elective courses and options.

Fourth Year
Change Plant Science 344 from compulsory to elective
Revise electives and options.

Chemical Engineering

Changes
Che.E. 353) Hours changed
Che.E. 354) Hours changed
Chem. 257)

New Course
Min. 271

Chemistry

Changes
253 Description revised
257 Hours changed
352 Hours changed

Civil Engineering

Changes
467 Description revised
351 ) Moved from second to first term
Electrical Engineering

New Courses

455 Communication Systems
483 Radiation and Propagation
485 Computer Methods in System Design
490 Topics in Electrical Engineering

Changes

355 Title, content and hours changed
367 Hours changed
453 Title, content and hours changed
463 Hours changed
467 Title, content and hours changed
469 Title, content and hours changed
473 Hours changed
475 Title, content and hours changed
477 Hours changed
481 Hours changed

Fourth Year curriculum changes.

Geological Engineering

Change

401 replaced by:

404 (1½) Structural Geology
419 (1½) Stratigraphy and Sedimentation

Mechanical Engineering

Changes

352 Number changed to 252
463 Hours reduced

Metallurgical Engineering

Change

478 Title, content and number changed to:

378 Electron Theory of Solids

Mineral Engineering

New Course

271 Interfacial Properties

Changes

370 Content, hours and description amended
453 Hours increased
455 Title and description changed

Curriculum changes involving options for Second, Third and Fourth Years.
FACULTY OF APPLIED SCIENCE  (Continued)

Engineering Physics

New Courses  353 (1½) Cryogenics
              354 (1½) Vacuum Physics and Beam Technology
              457 (2) Continuum Mechanics

Deletion  458

Curriculum changes involving Second, Third and Fourth Years.

SCHOOL OF ARCHITECTURE

Revision of introductory statement in Calendar, change in application date and statement explaining amended admission requirements.

FACULTY OF ARTS

Anthropology and Sociology

Anthropology

New Courses  431 Museum Principles and Methods
              450 Formal Structure of Anthropological Theories

Sociology

New Courses  250 Introduction to Quantitative and Formal Theoretical Sociology
              260 Introduction to Socio-Cultural and Socio-Ethnographic Studies
              354 Communities
              355 Societal Dynamics
              356 Social Ecology
              357 Evaluative Structures
              362 Collective Behaviour
              363 History of Social Thought
              364 Sociology of Knowledge
              366 Principles of Social Organisation
              400 Sociological Research
              453 Theoretical Problems
              451 Problems in Research Design and Analysis
              462 Social Change
              464 Social Movements
              465 Sociology of the Arts
FACULTY OF ARTS  (Continued)

Sociology  (Cont'd)

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<tr>
<th>New Courses</th>
<th>Description</th>
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<tbody>
<tr>
<td>466</td>
<td>Sociology of Education</td>
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<td>467</td>
<td>Sociology of Science</td>
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<td>469</td>
<td>Social Ideologies</td>
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<td>470</td>
<td>Formal Interactional Analysis</td>
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<td>Social Control</td>
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<td>472</td>
<td>Ethnomethodology</td>
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<td>473</td>
<td>Sociology of Mental Illness</td>
</tr>
<tr>
<td>474</td>
<td>Professions and Occupations</td>
</tr>
<tr>
<td>475</td>
<td>Dynamics of Interpersonal Relations</td>
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</table>

<table>
<thead>
<tr>
<th>Changes</th>
<th>Description</th>
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<tbody>
<tr>
<td>415</td>
<td>Number changed to 463</td>
</tr>
<tr>
<td>325</td>
<td>Number and Title changed to 352 Organisations</td>
</tr>
<tr>
<td>420</td>
<td>Number and Title changed to 353 Work and Industry</td>
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<tr>
<td>430</td>
<td>Number and Title changed to 300 Comparative Sociology</td>
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<td>410</td>
<td>Number and Title changed to 351 Experimental Small Groups</td>
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<tr>
<td>315</td>
<td>Number and Title changed to 361 Social Stratification</td>
</tr>
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<td>306</td>
<td>Number and Title changed to 365 Socialisation</td>
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<tr>
<td>421</td>
<td>Number and Title changed to 461 Political Sociology</td>
</tr>
<tr>
<td>405</td>
<td>Number and Title changed to 468 Issues in Sociological Theory</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Deletions</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>301</td>
<td></td>
</tr>
<tr>
<td>406</td>
<td></td>
</tr>
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<td>407</td>
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</table>

Asian Studies

<table>
<thead>
<tr>
<th>New Courses</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Japanese 301</td>
<td>Classical Japanese</td>
</tr>
<tr>
<td>Japanese 440</td>
<td>Supervised Study in the Japanese Language</td>
</tr>
<tr>
<td>Chinese 342</td>
<td>Reading Course in Chinese for Honours Students</td>
</tr>
<tr>
<td>Chinese 440</td>
<td>Supervised Study in the Chinese Language</td>
</tr>
<tr>
<td>Chinese 442</td>
<td>Tutorial in Chinese for Honours Students</td>
</tr>
<tr>
<td>Indic Languages 440</td>
<td>Supervised Study in Indic Languages</td>
</tr>
</tbody>
</table>
FACULTY OF ARTS
(Continued)

Asian Studies (Cont'd)

Changes

101 Changed to Chinese 100 Basic Chinese
301 Changed to Chinese 300 Advanced Modern Chinese
401 Changed to Chinese 400 Classical Chinese II
413 Changed to Chinese 410 Twentieth Century Chinese Authors
411 Changed to Chinese 411 Premodern Chinese Fiction and Drama
409 Changed to Chinese 412 Readings in Classical Chinese Prose
419 Changed to Chinese 413 Readings in Classical Chinese Poetry
201 Changed to Chinese 200 Intermediate Chinese
101 Changed to Japanese 100 Basic Japanese
300 Changed to Japanese 300 Advanced Modern Japanese
342 Changed to Japanese 342 Reading Course in Japanese for Honours Students
400 Changed to Japanese 400 Readings in Modern Japanese Prose
407 Changed to Japanese 401 Readings in Premodern Japanese Prose
408 Changed to Japanese 402 Readings in Japanese Poetry
200 Changed to Japanese 200 Intermediate Japanese
442 Changed to Japanese 442 Tutorial in Japanese for Honours Students
305 Changed to Sanskrit 305 Introductory Sanskrit
414 Changed to Sanskrit 414 Intermediate Sanskrit

Deletions

406
440
449

Classics

New Courses

Latin 205  Intensive Intermediate Latin
Latin 301  Latin Literature of the Classical Period

Changes

Classical Studies 430  Re-titled Athens
Classical Studies 431  Re-titled Rome and Roman Britain

Deletion

Latin 210
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Creative Writing</strong></td>
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<tr>
<td>New Courses</td>
<td>496 Tutorial</td>
</tr>
<tr>
<td></td>
<td>497 Tutorial</td>
</tr>
<tr>
<td>Change</td>
<td>498 Tutorial (Description changed)</td>
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<tr>
<td><strong>Economics</strong></td>
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</tr>
<tr>
<td>New Courses</td>
<td>201 Political Economy II</td>
</tr>
<tr>
<td></td>
<td>304 Introduction to Empirical Economics</td>
</tr>
<tr>
<td></td>
<td>305 Empirical Problems in Economics</td>
</tr>
<tr>
<td></td>
<td>354 Probability and Economics</td>
</tr>
<tr>
<td></td>
<td>364 Statistical Inference in Economics</td>
</tr>
<tr>
<td></td>
<td>454 Introduction to Econometrics</td>
</tr>
<tr>
<td>Deletions</td>
<td>304</td>
</tr>
<tr>
<td></td>
<td>404</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td></td>
</tr>
<tr>
<td>New Courses</td>
<td>210 An Introduction to English Honours</td>
</tr>
<tr>
<td></td>
<td>351 History of the English Language</td>
</tr>
<tr>
<td></td>
<td>371 Seventeenth-century Poetry</td>
</tr>
<tr>
<td></td>
<td>372 Seventeenth-century Prose</td>
</tr>
<tr>
<td></td>
<td>(English 371 and English 372 are to be given in alternate years.)</td>
</tr>
<tr>
<td></td>
<td>441 Canadian Prose</td>
</tr>
<tr>
<td></td>
<td>442 Canadian Poetry</td>
</tr>
<tr>
<td>Change</td>
<td>442 Number changed to 460</td>
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<td><strong>French</strong></td>
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<tr>
<td>New Courses</td>
<td>100 Beginning French</td>
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<tr>
<td></td>
<td>115 French Practice</td>
</tr>
<tr>
<td></td>
<td>301 Honours Seminar, I</td>
</tr>
<tr>
<td></td>
<td>417 Twentieth-Century French Poetry</td>
</tr>
<tr>
<td>Changes</td>
<td>223 Changed to 202 Studies in French Language and Style, I</td>
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<tr>
<td></td>
<td>304 Changed to 402 Studies in French Language and Style, III</td>
</tr>
<tr>
<td></td>
<td>120 Re-titled Contemporary French: Language and Literature</td>
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<td>210 Re-titled Second-year French</td>
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<td></td>
<td>220 Re-titled An Introduction to French Literature</td>
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<td>302 Re-titled Studies in French Language and Style, II</td>
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<td>Course Code</td>
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<tr>
<td>400</td>
<td>Re-titled A Survey of French Literature in Translation</td>
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<tr>
<td>401</td>
<td>Re-titled Honours Seminar, II</td>
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<tr>
<td>411</td>
<td>Re-titled Poetry and Drama of the Nineteenth Century</td>
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<tr>
<td>412</td>
<td>Re-titled The Nineteenth-Century Novel</td>
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<tr>
<td>413</td>
<td>Re-titled Currents of Thought in Nineteenth-Century Literature</td>
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<tr>
<td>414</td>
<td>Re-titled The Twentieth-Century Drama</td>
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<tr>
<td>315</td>
<td>Ecosystem Geography</td>
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<tr>
<td>374</td>
<td>Statistics in Geography I</td>
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<tr>
<td>375</td>
<td>Statistics in Geography II</td>
</tr>
<tr>
<td>414</td>
<td>Fluvial Geomorphology</td>
</tr>
<tr>
<td>123</td>
<td>German Language - accelerated course</td>
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<tr>
<td>405</td>
<td>Re-titled Prose Works of the Nineteenth Century</td>
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<tr>
<td>406</td>
<td>Re-titled Studies in the Classical Period</td>
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<td>304</td>
<td>Modern Spanish Drama</td>
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<td>303</td>
<td>Changed to 415</td>
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<td>404</td>
<td>Re-titled Spanish Drama</td>
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<tr>
<td>310</td>
<td>Re-titled Italian Literature in English Translation</td>
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<tr>
<td>100-199</td>
<td>Problems in History</td>
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<td>100</td>
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<td>201</td>
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<td></td>
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<td>212</td>
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</tbody>
</table>
FACULTY OF ARTS  (Continued)

Philosophy

New Course  474  Russian and Soviet Scientific Thought
Change       414  Description changed

Political Science

New Courses  442  Problems in International Relations:
              World Communism
              443  Problems in International Relations:
              Rich Nations, Poor Nations and
              International Stability

(These two courses will also be listed under
International Relations.)

Change       309  Change in unit value

Religious Studies

New Courses  Religious Studies 410  Modern Hinduism
            Hebrew 300  Advanced Hebrew (Biblical)

Slavonic Studies

New Course   Russian 180  Intensive Summer Workshop in Russian
Change       Russian 210  Change in unit value

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION

New Courses  Commerce 110  Probability and Statistics
            (This course replaces Mathematics 211 and 212)
            Commerce 210  Quantitative Analysis for Business
            (This course replaces Mathematics 311 and 312,
            and Commerce 311 and 312)
            Commerce 310  Simulation Models in Business
            Commerce 410  Problem-Solving Methods
            Commerce 411  Selected Topics in Quantitative
            Methods
            (The two courses Commerce 410 and 411 replace
            Commerce 495)
FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION (Continued)

Change

Commerce 323 Title changed to:
Introduction to Administrative Studies

Deletions

Mathematics 211
212
311
312

Commerce 495

FACULTY OF EDUCATION

Revision of calendar statements concerning changes in general regulations.

Elementary Division

New Course

Education 438 Observation and Recording

Changes

Education 203 Number changed to 303
204 " " " 304
201 " " " 321
202 " " " 322
205 " " " 323
207 " " " 324
209 " " " 325

Mathematics 203 - divided into two courses:

Mathematics 370 Mathematics for Elementary Teachers
Education 371 Methods of Elementary School Mathematics

Mathematics 303 - divided into two courses:

Mathematics 372 Topics in Mathematics for Elementary Teachers I
Mathematics 373 Topics in Mathematics for Elementary Teachers II

Education 417) Unit value changed from $1\frac{1}{2}$ to $1\frac{3}{5}-3$

Second Year Elementary Transfer Programme discontinued
FACULTY OF EDUCATION  (Continued)

Secondary Division

Changes

Education 301 - divided into two courses:

Education 301  Introduction to School Learning
Education 302  Introduction to Educational Evaluation

Education 435 - Description changed
Education 490 - Title and description changed
The Secondary School Library:
Selection of Materials

Deletion

Education 410

New Concentration in Commerce  (Data Processing)

Change in requirements of First Year to allow more flexibility.

FACULTY OF FORESTRY

New Course

495  Forest Environmental Management

Changes

350  Hours changed
351  Unit value, title and description changed - Forest Protection
372  Unit value increased, description revised
462  Unit value decreased, hours changed
464  Unit value decreased, hours changed
471  Description revised
472  Description revised
476  Description revised
477  Description revised
482  Revised to incorporate Forestry 483 - Hydrology of Forest Land Use - unit value increased to 3

Deletion

483

Additional Non-Forestry Electives:

Mathematics 200
Mathematics 300
Botany 303
Commerce 322
Commerce 465

Changes in Second, Third and Fourth Year Curriculum
FACULTY OF GRADUATE STUDIES

Anatomy

New Courses
505 General Cytological Biophysics
506 Biophysics of Cell Membranes

Anthropology

New Course
515 Cultural Evolution and Cultural Ecology

Architecture

New Course
500 Architecture Seminar

Changes
503 Title, description and unit value changed:
History of Architectural Theory and Philosophy
504 Title and description changed:
The Residential Environment
549 Unit value increased to 9. Title
and description changed:
Research Project for the Master's Degree

Deletion
500

Botany

New Courses
528 Current Topics in Plant Biochemistry
(1969-70 and alternate years)
529 Chemical Plant Taxonomy
(1969-70 and alternate years)

Change
543 Title and description changed:
Recent Advances in the Biology of Plant Cells
(1969-70 and alternate years)

Civil Engineering

New Courses
514 Advanced Reinforced Concrete Design II
519 Earthquake Resistant Design of Structures
521 Optimization of Engineering Design
537 Finite Elements

Changes
550 Renumbered 529, description changed
FACULTY OF GRADUATE STUDIES  (Continued)

Civil Engineering  (Cont'd.)

Changes  (Cont'd.)

553  Number changed to 531
554  "  "  "  532
555  "  "  "  533
556  "  "  "  535
557  "  "  "  505
558  "  "  "  510
559  "  "  "  511
560  "  "  "  546
561  "  "  "  542
562  "  "  "  543
563  "  "  "  545
564  "  "  "  550
566  "  "  "  548
567  "  "  "  540
568  "  "  "  541
569  "  "  "  551
570  "  "  "  513
571  "  "  "  515
572  "  "  "  517
579  "  "  "  544
580  "  "  "  507
581  "  "  "  508
582  "  "  "  500
583  "  "  "  501
585  "  "  "  503
588  "  "  "  574
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590  "  "  "  570
591  "  "  "  571
592  "  "  "  572
593  "  "  "  580
594  "  "  "  578
595  "  "  "  585
596  "  "  "  590
597  "  "  "  591

Deletions

551
552
573

Computer Science

New Courses

501  Theory of Automata
502  Adaptive Systems
503  Formal Languages
531  Topics in the Theory of Automata
Computer Science (Cont'd.)

New Courses (Cont'd.)

- 532 Topics in Adaptive Systems
- 534 Topics in Computer Systems
- 535 Topics in Simulation
- 537 Topics in Coding and Information Theory
- 538 Topics in Information Processing

Electrical Engineering

New Course

- 595 Digital Systems Engineering

Changes

- 569 Description changed

- 573 Unit value reduced to 1. Title and description changed: Synchronous Machine Dynamics

French

Changes

- 500) 506) 512)
- 501) 507) 513)
- 502) 508) 514) - Change in unit value
- 503) 509) 515)
- 504) 510) 516)
- 505) 511) 520)

Forestry

New Courses

- 510 Advanced Forest Entomology
- 558 Studies in Forest Tree Physiology
- 567 Forest Sampling Methods
- 568 Dynamic Programming in Resource Allocation
- 576 Energy Transfer Mechanisms in Wood and Related Products
- 585 Research Methods in Forest Hydrology
- 591 Studies in Forest Development Planning

Geography

New Course

- 600 Doctoral Research Seminar

Geology

New Course

- 546 Directed Studies in Geology
FACULTY OF GRADUATE STUDIES  (Continued)

Geology  (Cont'd)

Changes

505) These two 3-unit courses divided into three
506) 1½ unit courses:

- 534 Mechanics of Natural Deformation
- 544 Rheology and Analysis of Natural Deformation
- 554 Structure and Properties of Crystals and Crystal Aggregates

520 Description revised

523 This 3-unit course divided into two
1½ unit courses:

- 533 X-Ray Mineralogy
- 543 Advanced Mineralogy

525 This 3-unit courses divided into two
1-unit courses:

- 555 Advanced Igneous Petrology
- 565 Advanced Metamorphic Petrology

535 This 3-unit course divided into two
1-unit courses:

- 575 Geological Phase Equilibrium
- 585 Equilibria in Mineral Systems

Geophysics

Change

501 Title and description changed:
Topics in Geophysics and Astronomy

German

Changes

501) 509) 514)
502) 510) 515)
503) 511) 517) - Change in unit value
505) 512) 518)
508) 513) 519)
      520)

Home Economics

New Courses

511 Current Topics in Protein and Amino Acid Nutrition
FACULTY OF GRADUATE STUDIES  (Continued)

Home Economics (Cont'd)

New Courses (Cont'd)
513  Current Topics in Lipid Nutrition
515  Current Topics in Vitamin Nutrition
517  Current Topics in Mineral Metabolism
531  Nutrition Seminar
547  Directed Studies
549  M.Sc. Thesis

Mathematics

Change
510  Title changed to Homological Algebra

Deletions
528  Changed to courses under
529  Computer Science

Mechanical Engineering

New Courses
558  Engineering Applications of Statistical Distribution Theory
567  Nonlinear Elasticity
587  Engineering Acoustics

Changes
563  Title changed to Tribology
565  Title and description changed:
   Linear Mechanical Vibrations
586  Unit value increased

Mineral Engineering

New Course
572  Nature of Adsorbed Molecules

Change
570  Unit value reduced; description changed

Pathology

New Course
521  Recent Advances in Bio-pathology - Chemical Aspects

Changes
500  Description changed
502  Description changed
506  Description changed
520  Titled and description changed:
    Recent Advances in Bio-pathology - Morphological Aspects
525  Prerequisites changed to
    Pathology 500 or 425 or equivalent
FACULTY OF GRADUATE STUDIES  (Continued)

Physical Education

New Course  568  Seminar in Human Motor Performance and Learning

Changes  563  Title and description changed:
            Measurement of Human Motor Proficiency
            Description changed

570  Title and description changed:
            Research in Physical Education

571  Title and description changed:
            Physical Education for the Atypical Student

Russian

New Courses  540)
            541)
            542)  Topics in Russian Literature
            543)
            544)

FACULTY OF HOME ECONOMICS

New Courses  303  World Problems in Nutrition
            409  Principles of Infant Nutrition

Changes  340  Replaced by the following two courses:
            340  Human Growth and Development I
            341  Human Growth and Development II

342  Replaced by the following two courses:
            342  The Contemporary Family I
            343  The Contemporary Family II

403  Unit value changed

Deletion  414
FACULTY OF LAW

New Courses

331 Three new Seminars added:

Civil Liberties
Family Law Reform
Conflict of Laws

Change

331 Description of one Seminar changed:

Current Problems in Constitutional Law

213 Jurisprudence - Description changed

Deletion

331 One Seminar dropped:

Government Regulation of Business

SCHOOL OF NURSING

Baccalaureate Programme

Changes

Nursing 189 Description changed
Nursing 281 Title and description changed:
Introduction to Statistics and Research Method
Nursing 382 Title changed:
Maternal and Newborn Infants Nursing
Nursing 454 Title and description changed:
Epidemiology and Health Care
Nursing 463 Description changed
Nursing 489 Description changed

Deletion

Nursing 389

Choice of options for final year students expanded

Diploma Programmes

(a) Nursing B. Public Health Nursing

Calendar Statement indicating changes proposed to curriculum - decision would not be available for 1969-70 Calendar.

(b) Nursing E. Psychiatric Nursing

To be offered in the 1969-70 Calendar. (Not offered during the 1968-69 session.)

(c) Course change

Nursing 336 - Description changed.
FACULTY OF PHARMACY

Changes

210  Title and description changed: Pharmaceutics II
310  Title and description changed: Pharmaceutics III
410  Title and description changed: Biopharmaceutics
411  Title and description changed: Applied Pharmaceutics
414  Title changed: Problems in Pharmaceutics and Biopharmaceutics
415  Title and description changed: Topics in Pharmaceutics and Biopharmaceutics
416  Description changed
425  Description changed
450  Description changed

Deletion

417

Revision of Calendar Statement with regard to Options.

SCHOOL OF PHYSICAL EDUCATION AND RECREATION

Replacement of existing programme for specialization in Physical Education by a two-option programme, one to allow for a reduction in science content and the other to allow more concentration in science or psychology, for those students interested in advanced studies in physical education.

New Courses

Physical Education 391  Applied Anatomy and Physiology
Physical Education 468  Human Motor Performance and Learning

Changes

Physical Education 221) unit value
227) increased

SCHOOL OF REHABILITATION MEDICINE

Changes

201) Combined to form one course:
201  Medicine and Surgery II
SCHOOL OF REHABILITATION MEDICINE  (Continued)

Changes (Cont'd.)

301 Combined to form one course:
302

301 Medicine and Surgery III

404 Title changed: Rehabilitation I
406 Title changed: Rehabilitation II

FACULTY OF SCIENCE

Astronomy

New Course 449 Directed Research in Astronomy

Change 321 Separation of lectures and laboratories to give:

321 Astronomical and Astrophysical Measurements
331 Astronomical Laboratory

New Programme Combined Honours Astronomy and Physics

Chemistry

New Courses 410 Solid State Chemistry
411 Synthesis and Chemistry of Natural Products
413 Bio-Organic Chemistry
414 Coordination Chemistry
416 Physical Organic Chemistry
418 Organometallic Chemistry
419 Chemical Thermodynamics
420 Molecular Spectroscopy

Changes 303 Title and description changed
403 Unit value reduced; change in description
407 Unit value reduced; change in description
409 Renumbered as 330
412 Divided into two courses:
   401 Quantum Chemistry
   404 Advanced Inorganic Chemistry

Programme Changes Honours and Majors programmes (to incorporate new courses)
FACULTY OF SCIENCE (Continued)

**Computer Science**

<table>
<thead>
<tr>
<th>New Course</th>
<th>410 Systems Programming</th>
</tr>
</thead>
</table>
| Changes | 200 Title and description changed  
210) Change in prerequisite  
400) |

**Geology**

| Change | 401 Divided into two courses:  
404 Structural Geology  
419 Stratigraphy and Sedimentation |

**Geophysics**

<table>
<thead>
<tr>
<th>New Course  (1970-71)</th>
<th>412 Introduction to Space Plasma Physics</th>
</tr>
</thead>
</table>
| Changes | 300 Renumbered as 201 with same title but with revised course content  
302 Title and content changed |

| Programme Changes | Major Geophysics  
Combined Honours Geophysics and Physics  
Combined Honours Geophysics and Geology |

**Life Sciences**

**Biology**

| New Courses | 200 Cell Biology I: Structural Basis  
201 Cell Biology II: Chemical Basis  
(Required courses in the second year of Majors and Honours programmes in Biology, Botany and Zoology)  
315 Protistology  
335 Fundamental Genetics (Summer Session only) |
| Change | 340 Title and content changed |

| Programme Changes | Majors and Honours programmes, First and Second Years - revised to incorporate new courses. |
Life Sciences (Cont'd.)

Botany

New Courses
209 Non-Vascular Plants
210 Vascular Plants
(Required courses in the second year of both the Majors and Honours programmes in Botany)

310 Plants and Man
(Proposed in response to a request from the Faculty of Arts)

Programme Changes
Revised Majors and Honours programmes

Microbiology

New Course
416 Applied Microbiology

Zoology

New Courses 1969-70
203 Comparative Animal Morphology (Half of present course 202)
204 Developmental Biology (Half of present course 302)
424 Comparative Histology and Histophysiology

New Courses, to be instituted not later than 1970-71

306 Vertebrate Zoology (Half the present course 202)
305 Invertebrate Zoology
349 Honours Tutorial

Changes 1969-70
304 Separation of lectures and laboratories as:

307 Physiology
308 Physiology Laboratory A

416 Title changed
420 Unit value reduced
421 Change in orientation, title and description
422 Renumbered as 323 with change in title and description; unit value reduced.
423 Title and description changed
428 Separation of lectures and laboratories as:

428 Comparative Physiology (New title and description)
429 Physiology Laboratory B
FACULTY OF SCIENCE  (Continued)

Life Sciences  (Cont'd.)

Zoology  (Cont'd.)

Deletion  412
1969-70

Programme  Revised Majors and Honours programmes
Changes  1969-70

Mathematics

A complete reorganization of all courses offered by the Department of Mathematics.

(1) Courses numbered 100 to 140 to start in 1969-70.
(2) The new course Mathematics 400 to be given in 1969-70 and subsequent years but to be numbered Mathematics 423 until the fourth year of the new programme comes into effect.
(3) Courses numbered 200 to 222 to start not later than 1970-71.
(4) Courses numbered 300 to 499 to start not later than 1971-72.

Revised requirements for Majors and Honours programmes, and for combined Honours programme in Mathematics and Physics.

Physics

New Courses  349  Directed Studies
(Honours  401  Electromagnetic Theory
programme)  406  Continuum Mechanics
449  Directed Studies

Changes  302  Title and description changed; unit value reduced.
308  Title and description changed
(Honours  402  Title and description changed; unit value increased.
Programme)  408  Description changed; unit value reduced
409  Unit value increased
415  Renumbered as 403

(Majors  302  (Majors section) - renumbered as 312
programme)  315  (Majors section) - renumbered as 413
401  Renumbered as 411; title changed

Deletions  307)  (Both in the Honours programme)
404)
<table>
<thead>
<tr>
<th>Programme Changes</th>
<th>Revision of Honours programme, and of combined Honours programmes in Physics and Mathematics, Physics and Geophysics, Physics and Chemistry, and Physics and a subject other than Mathematics, Geophysics or Chemistry.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Revision of fourth year Majors programme.</td>
</tr>
<tr>
<td></td>
<td>New combined Honours programme in Physics and Astronomy</td>
</tr>
</tbody>
</table>