The fifth regular meeting of the Senate of the University of British Columbia for the Session 1964-65 was held on Wednesday, May 19, 1965, at 8:00 p.m., in the Board and Senate Room, Administration Building.

Present: President J.B. Macdonald (Chairman), Chancellor Phyllis G. Ross, Mrs. H.F. Angus, Dr. K.F. Argue, Dr. C.S. Belshaw, Mr. R.M. Bibbs, The Rev. J. Blewett, Mr. J.F. Brown, Mr. W.T. Brown, Mr. F.L. Burnham, Mr. K.P. Caple, Dr. J.D. Chapman, Dean I. Mc.T. Cowan, Dean G.F. Curtis, Dean B.A. Eagles, Mr. H. Elder, Dr. J.F.K. English, Dr. J.G. Foulks, Dr. S.M. Friedman, Dean W.H. Gage, Dr. W.C. Gibson, Dr. D.M. Healy, Mr. W.E. Ireland, Dr. J.A. Jacobs, Dr. F.H. Johnson, Dr. J.E.A. Kania, Mr. J.S. Keate, Dean S.W. Leung, Dean Helen McCrae, Dean J.F. McCreary, Dr. M.F. McGregor, Mrs. H.J. MacKay, Dr. K.C. Mann, Dr. G.W. Marquis, Dr. W.H. Mathews, Mr. D.F. Miller, Mr. F.A. Morrison, The Honourable Mr. Justice N.T. Nemetz, The Rev. W. Nicholls, Mr. E.P. Nicol, Dr. J.H.G. Smith, Dr. J. Norris, Dean V.J. Okulitch, Dr. G.J. Parfitt, Dean G.N. Perry, Dr. A.J. Renney, Dr. W. Robbins, Dr. B. Savery, Dean N.V. Scarfe, Dr. R.F. Sharp, Dr. Ross Stewart, Mr. E.C.E. Todd, Dr. F. Turnbull, The Honourable Mr. Justice D.R. Verchere, Mr. F.E. Walden, Dr. H.V. Warren, Dr. John B. Warren, Mr. P.H. White, Dr. S.H. Zbarsky, Mr. G.R. Selman.

Messages of regret for absence were received from Dr. H.L. Keenleyside, Mr. S.L. Lipson, Dr. D.C. Murdoch, Dr. M.A. Ormsby, The Honourable J. Sinclair, Mr. B. Stuart-Stubbs, The Rev. W.S. Taylor, Mr. A.A. Webster, Dr. R.W. Wellwood.

Minutes of the Previous Meeting

Dean Gage)
Dean Scarfe) That the minutes of the fourth regular meeting of Senate for the Session 1964-65, held on March 3, 1965, having been circulated, be taken as read and adopted.

Carried

Recommendations from the Senate Executive Committee

Proposal to study alternatives to the present University year

The Canadian Association of University Teachers' Bulletin of September, 1964, which contained the Final Report of the Committee on Year-Round Operation of Universities had been circulated. In the brief discussion that took place, it was suggested that the Registrar might obtain information from the University of Manitoba for circulation to Senate. The Senate Executive Committee felt it would be useful to have the views of the Deans of Faculties on the use of existing facilities on a year-round basis and possible desirable modifications.

Dean Cowan)
Dean Gage) That the proposal to study alternatives to the present year be referred to the President and the Deans of Faculties for report on present use of facilities on a year-round basis and possible desirable modifications.

Carried

Consideration of the Master of Music degree course

A paper had been circulated in advance giving details of a Master of Music degree course.

In reply to a question, Dr. Marquis assured Senate that he had sufficient staff to launch the course.

Dr. English)
Dr. Jacobs) That the proposed Master of Music Degree course be approved.

Carried

Submissions of the Faculties

Establishment of a Faculty of Nursing

The Faculty of Applied Science had supported the proposal of the Council of Nursing that a Faculty of Nursing should be established, and the recommendation of the Senate Executive Committee was that the proposed change should be referred to the President's Committee on Academic Affairs for a preliminary investigation and report.

Dean McCreary)
Mr. J.F. Brown) That the proposal for change from School to Faculty of Nursing be referred to the President's Committee on Academic Affairs for a preliminary investigation and report.

Carried

New Programmes of Study

(i) Plant Science - Ph.D.

(ii) Soil Science - Ph.D.

(iii) Food Science - M.Sc. and M.S.A.

(iv) Librarianship - Master of Library Science

(v) Nursing - Diploma in Psychiatric Nursing, one year course

(vi) Dentistry - Third Year curriculum

The new programmes of study were before Senate for review from an academic standpoint. If approved by Senate they would next be considered by Deans of Faculties before submission to the Board of Governors. Subject to necessary funds being included in the Budget and approval by the Board of Governors, the programmes would come into effect September 1966.

Dean Cowan)
Mr. Ireland) That the new programmes of study be approved with the provision that the residence requirement of the Faculty of Graduate Studies be clearly understood to apply to the Master of Library Science course; to that end the word "ordinarily" should be deleted from the M.L.S. presentation under "Residence".

Carried

New courses and changes in courses and curricula

Papers had been circulated in advance setting out new courses and course and curriculum changes in the following studies:-

Applied Science, 1965-66

Arts, 1966-67

Dentistry, 1966-67

Graduate Studies, 1966-67

Nursing, 1965-66

Science, 1966-67

It was ascertained that the proposed new courses in Slavonic Studies under the Faculty of Graduate Studies had not first been submitted to the Faculty of Arts. They were therefore withdrawn for re-submission to Senate at a later date.

* Details of the approved new courses and changes in courses and curricula are shown at Appendix I.

(see pages 3532-3541)

Dean Curtis)
Dean Scarfe) That the proposed new courses and changes in courses and curricula be approved.

Carried

Faculty of Arts - Report of the Art Gallery Committee

The Report of the Art Gallery Committee had been circulated to members of Senate in advance, and Senate had been requested by the Faculty of Arts to consider recommendations 1, 2, 3 and 4 of the Report, namely:

* please also see "Late Submissions" p.3526

1. That a new University of British Columbia Art Gallery be included in the present Fine Arts Centre, in conjunction with the proposed new Museum of Anthropology.

2. That the new Art Gallery be administered under the supervision of the Department of Fine Arts within the Faculty of Arts.

3. That administrative plans be inaugurated as soon as possible to provide monies for the construction of such a Gallery, as well as monies for the hiring of adequate personnel, and for proper maintenance in the future.

4. That academic rank be given to the Curator and the Docent of the Art Gallery.

Capital development was involved and the Chairman stated the Board of Governors would want to know what priority the Art Gallery would take over other requirements of the Faculty of Arts.

Dean Gage)
The Honourable)
Mr. Justice Nemetz)

That the Report of the Art Gallery Committee be returned to the Acting-Dean of Arts for further information on the following matters:

(i) the priority of the proposed new Art Gallery relative to other proposals of the Faculty;

(ii) the desirability of establishing the Art Gallery within the Faculty of Arts rather than in collaboration with other Faculties;

(iii) the implication for other similar positions of academic rank for the curator.

Carried

Courses to be offered under Department of University Extension 1965-66

Papers had been circulated in advance setting out courses to be offered under Department of University Extension, 1965-66, in Arts, Education and Science.

* Details are shown at Appendix II. (see pages 3541-3543)

Dean Scarfe) That the proposed extra-
Mr. Miller) sessional course offerings for 1965-66 be approved.

Carried

Faculty Membership - Faculty of Science

In addition to those persons specified as members of the faculties by Senate in its resolution of December 18, 1963, defining faculty membership, the Senate Executive Committee supported the following recommendations of the Faculty of Science, concerning further membership in that Faculty, under section (vii) of the Senate resolution:

> "Such other persons as the Faculty shall appoint in conformity with rules determined by the Faculty and approved by the Senate."

1. All faculty members of Assistant Professorship status upwards who are on the budget of the Faculty of Science.

2. Heads of Departments which offer the B.Sc. Honours degree and whose salaries are not in the budget of the Faculty of Science.

3. Those faculty members in departments coming under (2) who are teaching a course which is recognized for the B.Sc. degree. Membership under this clause will be limited to 25 persons, with not more than two persons from any one department. Suitable candidates should be

* please also see "Late Submissions" p.3526

nominated by the Dean of the Faculty of Science in consultation with the departments concerned and the nominations placed before the meeting of the Faculty of Science for approval by a simple vote.

Note: The membership will change from year to year as the same persons will not presumably be teaching the same courses each year.

4. Deans of those faculties whose students take at least three units of courses in the Faculty of Science.

Dean McCreary)
Dean Okulitch) That the proposal for membership in the Faculty of Science be approved.

Carried

Late Submissions

The following late submissions were received from Faculties, details of which had been circulated in advance:

Establishment of new Departments

The President's Committee on Academic Affairs recommended the establishment of a Department of Creative Writing and a Department of Theatre in the Faculty of Arts, and the Committee's reports had been circulated.

Acting Dean Healy)
Dr. Norris) That Creative Writing and Theatre be established as departments within the Faculty of Arts.

Carried

Education

New course: (1966-67)	Education 418 (3)	An Introduction to Special Education in Secondary Schools
Additions to extra-sessional course offerings, 1965-66:	Education 508 (Mathematics)	Review of Research in Methods of Teaching Specific School Subjects: Mathematics
	Education 578	Advanced Seminar in Theories of Guidance and Counselling

Dean Scarfe)
Dr. English) That the proposed new Education course and the additions to extra-sessional course offerings, 1965-66, be approved.

Carried.

Law

Dean Curtis)
Dean Gage) That in the Third Year, Law 309, Evidence, be compulsory for all students.

Carried

Pharmacy

Dean Gage)
Mr. Morrison) That for the 1965-66 Session, Commerce 261 replace Commerce 369 for Pharmacy students.

Carried

Physical Education

New courses: (1966-67)	P.E. 319 (1)	Advanced Volleyball
	P.E. 323 (1)	Advanced Wrestling
	P.E. 211 ($\frac{1}{2}$)	Ice Hockey

Concern was expressed at the titles given to the proposed new Physical Education courses. It was felt that the titles "Advanced Volleyball" and "Advanced Wrestling" did not adequately describe the courses to be offered,

the word "advanced" being the objection. It was pointed out that to change the titles at that stage would cause difficulties and delays, but it was felt that, in future, due regard should be given to the selection of titles for courses.

Dean Scarfe)
Dean Gage) That the proposed new courses in Physical Education be approved.

Carried

Eleven members voted against the Motion.

Candidates for Degrees - Congregation 1965

Lists of candidates for degrees to be awarded at the Spring Congregation 1965, were circulated at the meeting.

The total number of graduands for 1965 was 2,092 compared to 1,893 for 1964.

Dean Gage)
Dean Scarfe) That the candidates for degrees as approved by the Faculties be granted the degrees for which they were recommended, subject to any necessary adjustments in the lists to be made by the Registrar in consultation with the Dean concerned and the Chairman of Senate.

Carried

Prizes, Scholarships and Bursaries

List No. 1 of awards for the Session 1965-66, mainly to students in the graduating classes, was circulated at the meeting.

The Senate Executive Committee recommended approval of the following new awards and changes in awards,

subject to the approval of the Board of Governors where necessary:

Quote: (Appendix III) (see pages 3543-3546)

Dean Gage)
Dean Scarfe) That medals, prizes, scholarships and fellowships be awarded as recommended on List No. 1; that the new awards be accepted and the changes in awards be approved, subject to the approval of the Board of Governors where necessary, and that letters of thanks be sent to the donors of new awards.

Carried

Committee on Honorary Degrees

At the request of the Chairman, and in the absence of Dean Myers, Mr. Parnall, Registrar and Secretary to Senate, reported that the Honorary Degrees Committee had recommended that the honorary degree of LL.D. for the late Mr. G.T. Cunningham should be awarded posthumously. The Senate Executive Committee had concurred with that recommendation and his son, Ralph, had indicated his willingness to receive the degree.

Mr. Caple)
Mr. Morrison) That the honorary degree of LL.D. for the late Mr. G.T. Cunningham be awarded posthumously; and that the degree be received by his son, Ralph.

Carried

Dr. McGregor)
Dean Cowan) That this memorial be spread on the minutes of Senate, and that a copy be sent to members of the family.

Carried

KASPAR DAVID NAEGELE

Kaspar David Naegele was born in Stuttgart, Germany; he moved to England in 1937 and to Canada shortly afterwards. He was an undergraduate at McGill, he took his Master's degree at Columbia in 1947 and his Doctorate at Harvard in 1952. He began his teaching career at Harvard, he served as Assistant Professor at the University of New Brunswick, and he joined the Department of Anthropology and Sociology at the University of British Columbia in 1954. Here he rose to the rank of Professor by 1963. He had enjoyed a year as Visiting Lecturer in Sociology at the University of Oslo. On April 1, 1964, he assumed the office of Dean of the Faculty of Arts; he had been a member of Senate since September 1963. He fell to his death February 6, 1965, at the age of 41.

His work in Sociology became known in many countries and guarantees his scholarly reputation. But it is as a teacher that he will be remembered at the University of British Columbia. His lectures were carefully prepared and clearly spoken; more than that, inside the classroom and outside he showed an unusual compassion for and understanding of his fellow men. Students are quick to sense these qualities and for some years he was ranked with the most respected and popular of professors. Among the most impressive tributes paid to him have been those by students, in private as well as in public. To be beloved by his students is the professor's highest goal.

Naegele was a man who thought deeply about education and its problems; and he had ideas. The Deanship gave him the opportunity that he needed to put these ideas into practice. In his brief tenure he began many investigations and he initiated what he considered were necessary reforms. The office is burdensome, perhaps more burdensome than he had imagined; progress was slow and most of his undertakings are left unfinished. It is impossible to say what he would have made of the Deanship. What we know is that he was conscientious, that he worked hard, and that he was determined.

Dean Naegele died a young man, with a new and promising career before him. He leaves his wife, two daughters, and a son, all of Vancouver; and a father and two brothers. His colleagues and his students mourn with them.

Dr. McGregor)
Dean Cowan)

That this memorial be spread on the minutes of Senate, and that a copy be sent to members of the family.

Carried

Other Business

Simon Fraser University

A discussion took place, initiated by Dr. Robbins, regarding collaboration between Simon Fraser University and the University of British Columbia.

It was understood that Simon Fraser University intended to do graduate work, and there was the possibility that graduate students of the two Universities could be exchanged. The University of Victoria was anxious to have the assistance and guidance of the University of British Columbia regarding the degree to which collaboration in the graduate area could be carried out.

It was felt that the matter was one of importance which should be discussed by Senate at a later date.

The meeting adjourned at 9:40 p.m.

John Macdonald
Chairman

J. E. Parnall
Secretary

APPENDIX I - New Courses and Changes in Courses and Curricula
(see pages 3521, 3522)

FACULTY OF APPLIED SCIENCE (1965-66)

New Courses:

Chemical Engineering 470, Pulp and Paper Technology
Mining 250, Introduction to Mineral Engineering
Mining 550 (2), Rock Mechanics
Mining 552 (2), Applied Physical Measurements
Mining 553 (2), Operations Research

Changes in Engineering Curricula

Chemical Engineering - Fourth Year
Change of hours:
Chemical Engineering 450, from (2-0-2*; 2-0-2*)
to (2-0-1; 2-0-1)

Chemical Engineering - Fourth Year
Chemical Engineering 470, Pulp and Paper Technology to be available as an elective to fourth year chemical engineering students (and to others who have the necessary pre-requisites).

Geological Engineering - Second Year
Delete: Geophysics 300, Physics of the Earth
Add: Geology 204, Structural Geology

Geological Engineering - Third Year, Option II
Delete: Geophysics 403, Geochronology
Physics 304, Thermodynamics
Add: Physics 315, Thermodynamics and Statistical Theory of Matter

Mining Engineering - Second Year
Delete: Geophysics 300, Physics of the Earth
Add: Geology 204, Structural Geology
Mining 250, Introduction to Mineral Engineering

Mining Engineering - Third Year
For the academic year 1965-66 only
Delete: Metallurgy 372, Physical Metallurgy
Add: Mining 250, Introduction to Mineral Engineering

FACULTY OF ARTS (1966-67)

ASIAN STUDIES

New Course:

Asian Studies 206 (3): Introduction to Southeast Asia

Change in Title and Description:

Asian Studies 310 (3): To read:
Far Eastern Diplomatic History.
A survey of the diplomatic history of East and Southeast Asia from the Opium War to the end of World War II.

Changes in Description:

Asian Studies 315: To description add:
Open to second-year students by permission of the instructor.

Asian Studies 442: From description omit:
For honours students only.

HISTORY

New Courses:

History ~~322~~ 312 (3): Russia from the 9th Century to 1689 (to be offered in alternate years)

History 330 (3): History of Poland from Early Modern Times to 1795

History 331 (3): Diplomatic History of Early Modern Europe

MATHEMATICS

New Course:

Mathematics 204 (3): Principles of Mathematics

PHILOSOPHY

New Course:

Philosophy 200 (3): Epistemology and Metaphysics

Change in Number and Description

Philosophy 212 to become Philosophy 312 (3): Deductive Logic, with the following new description: Introduction to symbolic logic. Topics include the logic of propositions and predicates, axiom systems and philosophical problems raised by the results of modern logic. Primarily intended for students of Philosophy, Mathematics and the Sciences. (3-0; 3-0)

Changes in Description

Philosophy 202 (3): to existing description add: It is recommended that students who intend to do further work in Philosophy, Mathematics and Science, should take Philosophy 312 rather than 202.

Philosophy 402 (3): in place of existing description read: Systematic development of deductive logic, the foundations of mathematics, and meta-mathematics. Prerequisite: Permission of the Instructor.

Changes in Number

Philosophy 210 to become Philosophy 300
Philosophy 300 to become Philosophy 310

POLITICAL SCIENCE

New Course:

Political Science 412 (3): Southeast Asian Politics

Change in Title and Description

Political Science 406 (3): In place of existing title and description read:
Contemporary East Asian International Relations. - An analysis of the external relations of states in Eastern Asia since World War II not only bilaterally but also as system of states and as affected by the dominant system of the American-Soviet blocs. Major foreign policies and the way they are formulated and administered by government will be treated. (3-0; 3-0)

RELIGIOUS STUDIES

New Courses:

Hebrew 100 (3): Introductory Classical Hebrew
Sanskrit 300 (3): Introductory Sanskrit
Religious Studies 411 (3): Indian Mahayana Buddhism

SLAVONIC STUDIES

New Courses:

Russian 403 (3): Advanced Russian Grammar, Syntax and Composition
Ukrainian 400 (3): Ukrainian Language: Part I
Serbocroatian 400 (3): Serbocroatian Language: Part I

THEORY AND COMPOSITION

New Course:

Music 400 (3): Theory of Music IV

Deletions:

Music 304 (3): Advanced Counterpoint
Music 402 (1): Twentieth-Century Musical Idioms
Music 407 (3): Composition IV

MUSIC HISTORY AND LITERATURE

Changes in Titles and Descriptions

Music 120 (3): History of Music I.
Music 320 (3): History of Music II.
Music 422 (3): History of Keyboard Literature
Music 423 (3): History of Opera
Music 424 (3): History of Vocal Music
Music 425 (3): Medieval and Renaissance Music

Deletions

Music 421 (1): History of Organ Literature
Music 424 (1): History of Solo Song

APPLIED MUSIC

New Course:

Music 440 (2): Piano Techniques

ENSEMBLES

Changes in Numbers and Titles

Music 150 (1): University Orchestra (formerly Music 130)
Music 151 (1): Chamber Orchestra (formerly Music 131)
Music 152 (1-2): Wind Ensembles (to replace Music 132, 136 and 137)
Music 153 (1): University Singers (formerly Music 133)
Music 154 (1): University Choral Union (formerly second section of Music 133)
Music 155 (1): University Chamber Singers (formerly Music 134)
Music 156 (1): Collegium Musicum Vocal Ensemble (formerly the second section of Music 134)
Music 160 (1): String Chamber Ensembles (formerly Music 135)
Music 161 (1): Piano Chamber Ensembles (formerly Music 138)

Deletions

Music 132 (1): Concert Band
Music 136 (1): Woodwind Ensembles
Music 137 (1): Brass Ensembles

FACULTY OF DENTISTRY (1966-67)

New Courses:

General Medicine 435
General Surgery 435
Oral Biology 430
Oral Medicine 434 Periodontology
Oral Medicine 435 Oral Medicine and Oral Diagnosis
Oral Surgery 436
Orthodontics 439
Public and Community Dental Health 437
Restorative Dentistry 431 Restorative Dentistry and Pedontics

FACULTY OF GRADUATE STUDIES (1966-67)

AGRICULTURE

Deletions:

Agronomy 530)	
Agronomy 549)	Work to be covered
Horticulture 530)	under existing Plant
Horticulture 549)	Science 530, 549
Plant Pathology 530)	
Plant Pathology 549)	

ANATOMY

New Courses:

504 (1) Seminars in Ultrastructure
548 (1-3) Directed Studies in Anatomy

EDUCATION

New Courses:

524 (3) Advanced Seminar in Comparative Education
555 (3) Seminar on Research and Theory in Educational Administration

GEOPHYSICS

New Courses:

514 (1-2) Geophysical Analysis
515 (1-2) Cosmology

MINERAL ENGINEERING

New Courses:

Mining 551 (2) Rock Mechanics
Mining 552 (2) Applied Physical Measurements
Mining 553 (2) Operations Research

ZOOLOGY

New Courses:

509 (1-1½) Population Genetics
510 (1-1½) Developmental Genetics
513 (3) The Biology of Crustacea

Changes in Title and Description

502 Description revised to read:
Practical problems in analysis of animal population statistics and construction of population models, including digital computer techniques. Seminar discussions and directed reading in current literature.

507 Title changed to Zoogeography

SCHOOL OF NURSING (1965-66)

Curriculum Changes (1965-66)

N. 483 (2) Field Work, programmes "A" and "D"
Unit value deleted and course description changed from:

Planned observation and guided participation in (a) the care of handicapped persons;
(b) generalized public health nursing; and
(c) clinical teaching

to:

Planned observation and guided participation in generalized public health nursing and clinical teaching.

N. 346 (2) Field Work, programme "B"
Unit value deleted and course description changed from:

Planned observation and guided participation in public health nursing

to:

Planned observation and guided participation in generalized public health nursing

N. 347 (2) Field Work, programme "C" - unit value deleted.

Postbasic Degree Programme
(Nursing D)

N. 262 (1) Public Health Nursing D 1) replaced by
N. 362 (1) Public Health Nursing D 11) N. 343 (6)
N. 463 (3) Public Health Nursing 111) Public Health
) Nursing

N. 262 to be discontinued in September 1965

N. 362 to be discontinued in September 1966

The requirement of Psychology 100 or Psychology 206 to be discontinued

In appropriate circumstances N. 342 (6) Nursing Service Administration to be accepted as an alternative for N. 356 (2) Nursing D 11 and N. 460 (3) Administration.

A proposal was approved to provide greater flexibility in the Postbasic Degree Programme in order to attract capable nurses who otherwise, due to a variety of circumstances, would choose one of the diploma programmes.

FACULTY OF SCIENCE (1966-67)

New Courses:

Biology 101 to be introduced in September 1966 to replace Biology 105, Botany 105 and Zoology 105

Biology 101 (3) Principles of Biology

Changes:

Biology 320 changed to Biology 321 and 322, each of 1 1/2 units
Zoology 306, the required ecology course for zoologists, to be given under Biology 322. No change to be made in course content but considerable rearrangement will be made to dovetail this into Biology 321. (More detailed approaches to ecology following this first course are given in Zoology 401 (Experimental Ecology) and Botany 425 (Plant Ecology))

Zoology students to be able to take Biology 321 and 322, or Biology 322 to fulfil their requirements in ecology.

Biology 321 - Principles of Ecology - I. To complement Biology 322 and to be taken in the same session
Biology 322 - Principles of Ecology - II.

A single course will be offered in cell physiology, amalgamating the present Biology 330 and Zoology 418, to be numbered Biology 330.

Biology 330 - Cell Physiology (3)

Zoology 501 to be renumbered Biology 400 and 401
Biology 400 - Biometrics I 1½ units
Biology 401 - Biometrics II 1½ units

Honours and Major Programmes in Biology

Honours:
First Year: Biology 101, Mathematics 120 (or 110), Physics 101 (or 103), Chemistry 102 (or 101), English 100
Second Year: Chemistry 230, Bacteriology 200, Biology 234-240, Mathematics 240 or equivalent, Arts elective.

Third Year: Biochemistry 310, Biology 330, Physics 220 or Chemistry 205, Zoology 302 or 304 or Bacteriology 300 or Botany 330, Zoology 202 or 301 or 410 or 413 or 415 or 416 or Geology 306 or Botany 302 or 303 or 304 or 305, Arts elective.
Fourth Year: Biology 449, Biology 400-401.

Major:
First and Second Years: as for Honours.
Third Year: Biochemistry 310, Biology 330, Zoology 202 or 301 or 413 or 415 or 416 or Geology 306 or Botany 302 or 303 or 304 or 305 or Physics 220 or Chemistry 205, or Zoology 302 or 304 or Bacteriology 300 or Botany 330, Arts elective.
Fourth Year: Biology 400-401 ($1\frac{1}{2}$ - 3 units)
3 units of genetics, 3 units of physiology or biochemistry and electives ($6-7\frac{1}{2}$ units)

APPENDIX II - Courses to be offered under Department of University Extension 1965-66 (see page 3524)

FACULTY OF ARTS (1965-66)

Anthropology 200	Introduction to Anthropology
Anthropology 402	Ethnography of a Special Area
Asian Studies 205	Introduction to East Asia
Creative Writing 201	Prose Techniques
Economics 200	Principles of Economics
Economics 300	Intermediate Economics Analysis
English 200 (3 sections)	Literature and Composition
English 303 (3 sections)	English Composition
English 304	Advanced English Composition
English 321	Approaches to Poetry
English 340	The English Novel
English 360	Sixteenth Century Survey to 1611
English 366	Shakespeare
English 380	Eighteenth-Century Literature
Fine Arts 125	History of Arts
Fine Arts 327	Art of North America
French 302	Studies in French Language and Style
German 200	Second Year German
History 202	History of Canada
History 313	Renaissance and Reformation

Home Economics 403	Interior Design
Italian 100	First Year Italian
Italian 200	Second Year Italian
Linguistics 319	Comparative and Historical Linguistics
Philosophy 202	Logic and Scientific Reasoning
Political Science 201	Governments of Britain and the United States
Political Science 408	Soviet and East European Politics
Psychology 100	Introductory Psychology
Psychology 206	Dynamics and Behaviour
Psychology 403	Tests and Measurement
Russian 100	Basic Russian
Russian 200	Second Year Russian
Sociology 200	Introduction to Sociology
Sociology 301	Deviance
Spanish 100	First Year Spanish
Spanish 200	Second Year Spanish
Theatre 301	Children's Theatre

By correspondence:

Political Science 200	Democratic Government and Politics
German 200	Second Year German
History 313	Renaissance and Reformation

FACULTY OF EDUCATION

On Campus

Education 305	Art Education
Education 309	General Science for Elementary and Junior Secondary School Teachers
Education 400	Survey of Educational Thought
Education 405	Curriculum and Instruction in the Kindergarten and Primary Grades - Advanced
Education 417	Educating the Slow Learner and the Emotionally Handicapped
Education 407	Introduction to the Study of Exceptional Children

Education 430	History of Education
Education 470	Educational Sociology
Education 569	Administrative and Supervisory Problems of the District Junior or Community College
Fine Arts 303/403/413	Ceramics and Modelling I, II, III

Off Campus

Education 305	Art Education	Mission
Education 307	Music Education	Kelowna
Education 308	Physical Education	Vernon
Education 331	Psychology of Childhood	Powell River, Coquitlam
Education 332	Psychology of Adolescence	Langley Kamloops Penticton
Education 400	Survey of Educational Thought	Chilliwack
Education 407	Introduction to the Study of Exceptional Children	Abbotsford

FACULTY OF SCIENCE

Geology 105	General Geology
Mathematics 200	Algebra and Geometry
Mathematics 202	Calculus
Mathematics 303	Mathematics for Elementary Teachers
Mathematics 308	Topics in Algebra

APPENDIX III - New Awards and Changes in Awards
(see page 3528)

The Frank Cox Memorial Bursaries

Four bursaries of $200 each, established as a memorial to Mr. Frank Cox, Manager, Nelson's Laundries, Vancouver, B.C., by colleagues and friends, and supplemented by Mr. A.B. Christopher, are offered to students proceeding to University studies in September 1965. These awards will be made to students who have good scholastic standing and need of financial assistance. Although the awards will be open to undergraduates in any year or

faculty, preference will be given to sons and daughters of employees of Nelson's Laundries and to those who are proceeding from high school to the First Year of their programme.

The Max M. Waterman Prize

This prize of $25, established by Dr. M.J. Waterman in honour of his father, is to be awarded annually to the second year student who demonstrates the best performance in Dental Morphology (Oral Biology 410 and 420).

The Erling K. Andersen Memorial Scholarship

This scholarship of $500, established to honour the memory of her husband by Mrs. Erling K. Andersen, Prince George, B.C., is offered to students in the Faculty of Medicine. It will be awarded annually by the Joint Faculty Committee on Prizes, Scholarships and Bursaries to a worthy and deserving student who not only has good academic standing, and personal qualities essential to success in his chosen profession, but who also has need for financial assistance.

The J.A. Beckow Graduate Scholarship

This scholarship of $500, the gift of J.A. Beckow Limited, will be awarded to a graduate student who is continuing studies at the University towards a Master's Degree in the field of Science or Mechanical Engineering. If, in the opinion of the University Scholarship Committee there is no qualified student, the said sum will be used for students completing the third year of Mechanical Engineering and proceeding to the fourth year.

The G.T. Cunningham Memorial Loan Fund

As a memorial to the late George T. Cunningham and in tribute to his services to the profession of pharmacy, to his long and continued interest in the University, and to his outstanding contributions in many phases of public life, the Pharmaceutical Association of the Province of British Columbia has established a loan fund. Loans from this fund will be made by the University Committee on Prizes, Scholarships and Bursaries in consultation with the Dean of Pharmacy.

The Dean Kaspar Naegele Memorial Bursary in Nursing

This bursary of $50, gift of the Nurses Undergraduate Society in memory of Dean Kaspar Naegele, will be awarded to a student in Nursing who has satisfactory academic standing and requires financial assistance in the Session 1965-66.

The Sons of Norway Scholarships

The British Columbia Sons of Norway offer three scholarships of $300 each to students attending a University in British Columbia and proceeding to the second final or the final year of a full programme leading to a degree. To be eligible a candidate must be (a) a member of a British Columbia Sons of Norway Lodge, or (b) the son or daughter of a member of such a Lodge.

The Vancouver Real Estate Board Scholarships

Five scholarships of $500 each are offered in competition by the Vancouver Real Estate Board to Grade XII or XIII students enrolling for full-time studies in the fall in a course of at least two years duration leading to a recognized degree, diploma, or certificate at the University of British Columbia, Simon Fraser University, or the British Columbia Institute of Technology. The parent or legal guardian of the applicant must be an Active or Financial Member, Active Associate Member, or a Member of the Salesmen's Division of the Board, and have been such for a period of not less than two years at the time the application is made. The applicant must also write a full set of examinations conducted in June by the Department of Education, B.C. Candidates with an overall average of less than 70% will not be considered. The successful applicants will be selected primarily on the basis of academic standing.

The Lorraine Schwartz Prize in Statistics and Probability

In memory of Dr. Lorraine Schwartz, Assistant Professor in the Department of Mathematics, 1960-65, this prize has been established by her friends and colleagues. It will be awarded annually on the recommendation of the Department to an undergraduate or graduate for distinction in the fields of statistics and probability.

The Sam Bass Bursary

In honour of Sam Bass, and to commemorate in 1965 his birthday on April 25, this bursary was established and endowed through the gift to the University of $1,000 by his wife and children. The income provides an annual bursary for a worthy and deserving student in the Faculty of Medicine who has a good record in pharmacology.

The ASARCO Scholarship

This scholarship of $500, gift of the American Smelting and Refining Company, is offered to a student in the third or fourth year of Honours Geology or Geological Engineering. The applicant, who must be a male citizen of the United States or Canada, will be selected by the Department on the basis of scholastic standing and leadership in his chosen field. He must be in good health and without physical disability and be in the top 35% of his class scholastically. An additional grant of $500 is made to the University to the Department of Geology for its teaching programme.

The Women's Auxiliary to the Canadian Paraplegic Association Bursaries

Two bursaries of $200.00 each are offered by the Women's Auxiliary to the Canadian Paraplegic Association, B.C. Division, to paraplegic students or sons and daughters of paraplegics. These bursaries are available to students who are beginning or continuing studies in one of the Universities in British Columbia. They will be awarded by the University Selection Committee in consultation with the donors. To be eligible, an applicant must have satisfactory academic standing and need financial assistance.

Agriculture Women's Undergraduate Society

Value of annual bursary increased from $50 to $75.