VANCOUVER SENATE
MINUTES OF JANUARY 15, 1992

Attendance

Present: President D. W. Strangway (Chairman), Chancellor L. R. Peterson, Vice-President D. R. Birch, Mr. S. Alsgard, Mr. D. A. Anderson, Dr. A. P. Autor, Miss K. Bentsen, Dean C. S. Binkley, Dr. L. L. Bongie, Dr. M. A. Boyd, Dr. D. M. Brunette, Professor P. L. Bryden, Mr. R. Bush, Dr. D. G. A. Carter, Professor E. A. Carty, Dr. R. L. Chase, Dr. S. Cherry, Dr. T. S. Cook, Dr. J. D. Dennison, Dr. A. J. Elder, Mr. C. Fung, Mr. E. B. Goehring, Dean M. A. Goldberg, Dr. S. E. Grace, Dr. R. D. Guy, Dr. S. W. Hamilton, Mr. M. L. Hanik, Mr. J. Jacob, Dr. J. G. T. Kelsey, Dr. M. M. Klawe, Ms. J. Lahey, Mr. O. C. W. Lau, Mr. D. K. Leung, Dr. S. C. Lindstrom, Mr. S. Lu, Dr. D. M. Lyster, Dean M. P. Marchak, Dean B. C. McBride, Dr. H. McDonald, Dean J. H. McNeill, Mr. W. B. McNulty, Dean A. Meisen, Dr. A. G. Mitchell, Ms. E. Onno, Dr. L. Paszner, Dr. R. J. Patrick, Ms. B. M. Peterson, Professor R. S. Reid, Dr. P. Resnick, Dean P. B. Robertson, Dr. M. M. Ryan, Dr. G. G. E. Scudder, Dean N. Sheehan, Dr. C. E. Slonecker, Dean C. L. Smith, Dr. L. de Sobrino, Dr. L. J. Stan, Dr. R. C. Tees, Mr. G. A. Thom, Dr. A. Van Seters, Dr. J. Vanderstoep, Dr. J. M. Varah, Mr. L. Waldman, Miss R. Walia, Dr. D. A. Wehrung, Dr. R. M. Will, Dr. D. Ll. Williams, Ms. N. E. Woo.

Regrets: Mr. J. A. Banfield, Mr. N.A. Davidson, Dr. K. Dawson, Dr. G. W. Eaton, Ms. C. J. Forsythe, Dean J. R. Grace, Rev. J. Hanrahan, Dean M. J. Hollenberg, Dr. M. Isaacson, Mr. S.W.T. Mak, Dr. J. A. McLean, Mrs. S. K. Prpic, Miss C. L. Rankel, Dean J. F. Richards, Mr. A. J. Scow, Miss S. Sterling, Mr. M. Sugimoto, Dr. W. Uegama, Dr. W. C. Wright, Jr.

Minutes of the previous meeting

Dean Meisen
Dean McNeill

That the minutes of the fourth regular meeting of Senate for the Session 1991-92, having been circulated, be taken as read and adopted.

It was noted that under Chairman's Remarks on p.10169, "... the President of British Columbia ..." should read "... the President of The University of British Columbia ...". It was also noted that on p.10209, Faculty of Science, English Requirement, the second paragraph "All students ... LPI examination." should be deleted, and on page 10171 in the
first paragraph after the motion, "... 12 credits to 6 credits ..." should read: "6 credits to 3 credits..." and "...a basic 12 credit requirement..." should read "...a basic 6 credit requirement...". Attention was also drawn to page 10201 and the addition of Nursing 302 as a prerequisite for Nursing 303, and it was noted that Nursing 302 is for registered nurses only.

The motion, with the amendments noted, was put and carried.

Business Arising from the Minutes

UNIVERSITY RESIDENCES (P.10181)

The Agenda Committee recommended that Dr. Elder’s motion concerning university residences be referred to the Academic Policy Committee for advice.

Dr. Elder stated that she would like to move the motion.

\[
\begin{align*}
Dr. Elder & \quad \text{Whereas the introduction to University life for a number of students is through the student residences, it is therefore the obligation of the University to make certain that the living conditions foster and do not detract from the academic life and respect for individuals and individual values, and it is the particular obligation of Senate to foster the academic life of the University;}
\end{align*}
\]

\[
\begin{align*}
Dr. Cook & \quad \text{be it moved that a committee be named to enquire into the academic atmosphere of the University residences and the measures taken for their improvement.}
\end{align*}
\]
The committee must report to Senate in particular on:

1. What measures have been taken to improve the atmosphere in residences following the disagreeableness revealed in the report of the Committee on Student Appeals on Academic Discipline?

2. What training housing advisers have and how they are selected?

3. What continuing steps might be taken to improve the quality of academic life in the student residences?

Chairman’s remarks and related questions

President Strangway referred Senate to the following letter that the Chair of the Board of Governors had sent to the Honourable Robert de Côtret, Secretary of State for Canada, in support of a resolution of Senate urging the government to rescind the 3% fee imposed on Canada Student Loans by the Department of Secretary of State for Canada:

"The Board of Governors at its meeting on Thursday, November 21, 1991, received advice from the University Senate that it had unanimously passed a resolution requesting that President David W. Strangway as the Chair of Senate write to you to urge that the 3% fee imposed on Canada Student Loans by the Department of Secretary of State for Canada be rescinded. Vice President K. D. Srivastava has written to you on behalf of President Strangway, and a reply from Mr. Douglas Robertson was received a few days ago."
The University is conscious of the escalating costs of administering student aid programs. We are also acutely aware of the increasing cost of post-secondary education for students and that, as Mr. Robertson points out, the Canada Student Loan Program has not been modified to respond to the changing needs of Canadians attending our colleges and universities. It would appear to be most appropriate that the proposed fee be put on hold pending the in-depth review which you advised in the House of Commons would be undertaken.

This matter was discussed at the above-referenced meeting of the Board. The Board of Governors unanimously supports the Senate’s action and, similarly, has asked me to write to you so you will be aware that the Board urges the Government of Canada most strongly that this fee be cancelled or deferred pending the review of the program."

Reports of Committees of Senate

CURRICULUM COMMITTEE (SEE APPENDIX)

Dr. Sobrino, Chair of the Committee, presented the report.

FACULTY OF APPLIED SCIENCE

The Committee recommended approval of curriculum proposals from the Faculty of Applied Science, subject to the following:

- BIOE 306 - Delete "Overview of the status of" from the first line of the description, and reword the second sentence to read: "Functional specifications for performance, reliability and economy for aquacultural production operations."

- BIOE 376 - delete the following words from the description: "Heat, mass and momentum transfer...".

- BIOE 390 - delete the following words from the description: "Introduction to the...biological waste...",

Complementary Studies Courses - under item 2. English, after English 301 replace "or equivalent" with "or another approved technical writing course."
FACULTY OF AGRICULTURAL SCIENCES

1. The Committee recommended approval of the following wording for the English requirement of the Faculty of Agricultural Sciences:

"To qualify for the degree of B.Sc. (Agr.) a student must complete English 112 and one other 3 credit first year English course."

2. The Committee recommended approval of curriculum proposals, with the exception of the Landscape Architecture proposals, subject to the following:

- ECON 207 should read: ECON 307
- AGEC 400 - delete "Prerequisite: Consent of instructor."
- ANSC 320 - change description to read: "Physiological systems of importance in animal production...adaptation."
- Program change - CHEM 230 should read: 6 credits, and electives should read 3 credits.
- Wildlife Program - FRST 205 should read: FRST 202
- Electives should read: 30 or 27
- Note 7 should read: "Three credits of animal nutrition numbered 400 or greater must be included."
- Livestock Program - electives should read: 30 or 27.
- Fish Program - Electives should read: 21 or 18
- Poultry Program - Electives should read: 30 or 27
- Rangeland Resources - Electives should read: 24 or 21, and the total should read: 48 or 45.
- SOIL 101 - hours should read: [0-0; 2-1]
- SOIL 313 - delete from description: "Laboratory...models."
- SOIL 321 - under "Prerequisites" delete SOIL 200 recommended.
- B.Sc. (Agr.) in Soil Science - Program change: Second Year. CHEM 201 should read: CHEM 205 or 208 - 6 credits, and the electives should read: 9 credits.
- Also, Note 2 should read: "The following substitutions are routinely accepted: CHEM 201 (3) plus 3 credits of additional CHEM courses for CHEM 205 (6) or 208 (6); MICB 200...PLNT 321.
- Note 3 should read: "Restricted and Free Electives (41 to 44 cr)..."
- 14 to 17 credits of free electives should read: 11 to 14...

FACULTY OF ARTS

1. The Committee recommended approval of additions to List B in the Calendar and of curriculum proposals from the Department of Russian and Slavic Languages and Literatures. It was noted that the hours for Russian 102 should read: (0-0; 3-1)
2. The Committee recommended approval of curriculum proposals, with the exception of German 403, subject to the following:

- "Arts" should read "Arts One"
- GEOG 450 - change in hours only - delete "or permission of instructor".
- GEOG 322 - shorten description to: "As announced by the department a year in advance."
- Under Application Procedure, fourth line, delete "other".
- Psychology - delete all references to "permission of instructor".
- Psychology 402 - change prerequisite to read: PSYC 305 and 317 or 366 and delete "permission of instructor".
- Sociology 416 - delete "permission of instructor".

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION

1. The Committee recommended approval of course changes.

2. The Committee recommended approval of changes to the English requirement, subject to the deletion of the statement that transfer students must also achieve a satisfactory score on the Language Proficiency Index examination (LPI).

FACULTY OF FORESTRY

1. The Committee recommended approval of the following wording for the Faculty of Forestry English requirement:

- "All students must satisfy the English Requirement of the Faculty of Forestry. To meet this requirement, students must complete English 112 and one other 3 credit first year English course."

2. New program in Conservation, Recreation and Natural Areas Management

- The Committee recommended approval, subject to satisfactory consultations with Biology. The following changes were also noted:
- Study Programs - under "First Year" after CHEM 103 delete "or 110 or 120" and add a footnote 1 which will read: 1Note: students who have the necessary prerequisites are encouraged to take CHEM 110 or 120.
• Study Programs - under "First or Second Year" replace ENGL 100 with "6 credits of First Year English".
• Under "Wildlife Management" - footnote 1, FRST 385 should read: FRST 387.
• Under "Conservation and Natural Resources Planning", Third Year, FRST 321 should read: FRST 231.
• CONS 299 - change credits from (2) to (0)
• CONS 399 - change credits from (2) to (0)

3. The Committee recommended approval of curriculum proposals, subject to the following:

• All references to ENGL 100 should be changed to ENGL 112 and one other 3 credit first-year English course.
• FRST 387 - delete prerequisites
• Forest Resources Management Major (B.S.F.) - under First and Second Year, PHYS 110 or 120 should read: PHYS 110, 115 or 120.
• Forest Resources Management Major (B.S.F.) - delete footnote 5.
• Three-Year Program in Forest Resources Management Major - this should read: Major for B.C. Forestry Technology Graduates.
  PHYS 110 or 120 should read: PHYS 110, 115 or 120
  FRST 385 should read: FRST 387
  Add the following note: "Students who have completed an appropriate two year Forest Technology program with an acceptable standing may be able to complete the Forest Resources Management Major in 3 years with the approval of the Faculty.
• Forest Sciences Major - delete "MATH 111 or"
• Wood Science and Industry Major - footnote 2 delete second sentence: "Otherwise...advisor."
• Students entering from BCIT - change introductory paragraph to read: "Those students who have completed the British Columbia Institute of Technology diploma in Wood Products Manufacturing with an acceptable standing may receive up to 36 transfer credits and may, if they have
the necessary prerequisites, complete a B.Sc. (Forestry) in 3 years by completing the following program. Students must complete a minimum of 130 credits including any transfer credits." Under First Year - delete BIOL 101 or 102 (6), and after PHYS 110 add "or BIOL 101 or 102". Change total to 29. Under footnote 1, delete second sentence: "if...substituted."

- Under Industrial Processing Technology, First Year should read: "MATH 152, 153 and 154..."
- Science Engineering Biotechnology - PHYS 175 should read: PHYS 270.

FACULTY OF GRADUATE STUDIES

1. The Committee recommended approval of graduate proposals from Education and Audiology and Speech Sciences, subject to the following:

- AUDI 513 and 514 - delete "MATH 100 or 111" from the list of prerequisites
- AUDI 672 - title should read: "...Aphasiology".

2. The Committee recommended approval of curriculum proposals, with the exception of the Forestry proposals, subject to the following:

- PLNT 514 - delete "same as BOTA 545 and FRST 509".
- CHML 579 - shorten description.

SCHOOL OF PHYSICAL EDUCATION AND RECREATION

The Committee recommended approval of the following wording for the English requirement of the School of Physical Education and Recreation:

- "To qualify for the degree of B.P.E. a student must complete English 112 and one other 3 credit first year English course."
Reports of Committees of Senate

Dr. Sobrino
Dr. Lindstrom

That the proposals of the Faculties of Applied Science, Agricultural Sciences, Arts, Commerce and Business Administration, Forestry, Graduate Studies, and the School of Physical Education and Recreation, be approved.

Dean Marchak noted that a number of Faculties had proposed that their students be required to take English 112 plus one other 3 credit first-year English course. She stated that all of the first-year courses involved writing skills and felt that some students might be better served if they took one or two of the other first-year courses because they would get more exposure to poetry and prose writings. Dean Marchak suggested that Faculties reconsider the matter for next year and bring to Senate revised proposals that would allow their students more choice.

Dr. Will informed Senate that the Senate Admissions Committee would be reporting to Senate at the February meeting. He stated that a revised Calendar statement for admission to the Faculty of Forestry would be included in that report, and wished to note that any admission statements in the curriculum proposals before Senate this evening were not being recommended for approval.

Senate agreed to a suggestion by Dean Marchak that the words "...Soviet and emigré..." be deleted from the description of Russian 207.

Attention was drawn to the proposals of the Faculty of Forestry, and it was noted that under "Industrial Processing Technology", Fourth Year, COMM 397 should read "COMM 297", and under "Science, Engineering and Biotechnology" COMM 456 should read "COMM 457".
In response to a query about the Program in Conservation, Recreation and Natural Areas Management, Dean Binkley stated that the objective of the program was to provide a broad understanding of science and social sciences relating to natural resource management. He stated that the program had been developed in collaboration with internal and external planning committees. The internal committee included members from Forestry, Agricultural Sciences, Arts, Community and Regional Planning, Landscape Architecture, Law and Science, and a member at-large, Dr. Peter Larkin. The external committee included a wide range of people from the parks, conservation, and forestry communities in British Columbia, other parts of Canada and elsewhere in the world.

It was agreed that the words "...physical, biological and social sciences..." should read "...sciences and social sciences...".

In response to a query concerning the Complementary Studies Courses in the Applied Science proposals, Dean Meisen explained that Applied Science students will take English 112 or another first-year English course for 3 credits in the first year and in a later year take English 301 if they are qualified for entry and another approved technical writing course.

Dr. Elder drew attention to the Faculty of Arts proposals, and the proposed Calendar entry on Language Proficiency Index, which states that "During the term in which students are registered in a non-credit writing course at the University Writing Skills Centre, they may not register for more than twelve credits of work or the equivalent, without the permission of the Dean of Senior Adviser." She noted that at
the moment students who achieve a 3 on the LPI can register in 18 credits and students who achieve a 4 can register in 24 credits, and that this possibility was now being discontinued. Dr. Elder suggested that the proposed statement implied that the restriction only applied to one term, and that if they had to repeat the non-credit writing course in another term they would be free to take as many credits as they wished. It was agreed that the statement be changed to read "During any term...".

Dr. Sobrino referred to the deletion of the graduate program in the Department of Russian and Slavic Languages and Literatures, and stated that the Curriculum Committee had asked him to express the hope of the Committee that sometime in the future it will be possible for the Department to again offer a graduate program.

In referring to the English requirement proposals of some of the Faculties, Dr. Sobrino noted that there was no indication as to how many times a student could take the non-credit course in the event that the student failed the course, nor was there any indication that a student could not graduate until the course had been passed. He suggested that Faculties look into this matter. He also noted that the Faculties of Arts and Science were the only Faculties to propose restrictions on the number of credits that students taking the non-credit writing course can register in, and suggested that other Faculties might also wish to consider submitting similar proposals.
VANCOUVER SENATE  
MINUTES OF JANUARY 15, 1992

Reports of Committees of Senate

APPEALS ON ACADEMIC STANDING

Professor Bryden, Chair of the Committee, presented the following report which had been circulated for information:

1. Pursuant to s.36(b) of the University Act, R.S.B.C. 1979, c.419, the Senate has delegated to the Senate Committee on Appeals on Academic Standing the power to render final decisions on appeals by students from decisions of Faculties on matters of academic standing. The Committee has no jurisdiction where the sole question raised in an appeal turns on the exercise of academic judgment by a Faculty. The Committee is authorized to allow an appeal only where it decides that the decision was arrived at through improper or unfair procedures, and that as a result a wrong decision on the merits has or may have been arrived at.

2. The Committee heard seven appeals in respect of decisions that were taken during the 1990/91 academic year. The appeal was allowed in three of these cases and dismissed in the other four. A short summary of each appeal follows.

3. No. 1 - Appeal of Mr. B. from a decision of the Faculty of Education refusing to allow him to do a supplementary practicum in Education 329. Mr. B.'s practicum was disrupted when difficulties between himself and both his Faculty advisor and his supervising teacher forced the Faculty to decide to discontinue his practicum at the original sponsor school. The Faculty arranged for Mr. B. to finish his practicum at a new school but it asserted a requirement, previously waived by his former Faculty advisor, that he balance his program to do work in an area in which he was admittedly quite weak. The second part of the program resulted in a failure and the Faculty refused to allow Mr. B. to take a supplementary practicum.

Decision: The appeal was allowed in part. The Committee decided that, in the totality of the circumstances, it was unfair for the Faculty to assert a requirement in the renewed practicum that Mr. B. do work in an area in which he was admittedly weak after his initial Faculty advisory had waived that requirement. The Committee decided that the appropriate remedy was not to allow Mr. B. to do a supplementary practicum, but to treat the original practicum as if Mr. B. had withdrawn and give him an opportunity to re-register in Education 329 at no financial cost, and with a clear program that accommodates both Mr. B.'s academic strengths and interests and the Faculty's normal academic requirements.
4. **No. 2 - Appeal of Ms. M. from a decision of the Faculty of Arts that she be denied graduation as a Double Major in History and Slavonic Area Studies.** Ms. M. had received advice from the Department of Slavonic Studies that her program satisfied the Slavonic Area Studies Major requirements, and also received advice from the History Department that her program qualified her as a History Major. Unfortunately for her, she could not satisfy the requirements of a Double Major without counting at least one course for more than one purpose.

**Decision:** The appeal was dismissed. The advice that Ms. M. received from each Department was technically correct, in that each Department rightly advised her that her program satisfied the Department’s own Major requirements. The Committee believed that it was incumbent on Ms. M. to ensure that the requirements of both Departments could be met without double counting courses if she wanted to receive a Double Major. At the same time, the Committee wishes to draw to the attention of Senate the fact that students who wish to receive a Double Major may unwittingly find themselves the recipients of advice that misleads them about their eligibility for a Double Major. The Registrar, who is an ex officio member of the Committee, has agreed to take this matter under advisement in the preparation of future versions of the Calendar that will give prospective Double Major students clearer advice on this point.

5. **No. 3 - Appeal of Mr. R. from a decision of the Faculty of Applied Science that he stand failed in Mechanical Engineering 398.** Mr. R. submitted a paper that did not meet the course requirements for length.

**Decision:** The appeal was allowed, and Mr. R. was awarded a grade of "P" in the course. There was no dispute that Mr. R.’s paper was of adequate quality, and the Committee believed that the instructions given concerning the length of papers were not as precise as they should have been. Moreover, the Committee found that the length requirement was not being applied consistently by the instructor, and taken together these factors convinced us that the evaluation had been improper.

6. **No. 4 - Appeal of Mr. H. from decisions of the Faculty of Arts that grades of "W" not be substituted for grades of "F" in three courses.** Mr. H. had medical and other family problems that would have rendered him eligible for compassionate treatment by the Faculty. Rather than seeking to withdraw from courses when it became apparent that he was unable to carry a full load, however, Mr. H. simply discontinued work in some courses while successfully completing others. When he was notified that he had failed the courses in question, he sought permission to withdraw from them and this permission was denied by the Faculty.
Decision: The appeal was dismissed. The Committee did not believe that it was unfair or improper for the Faculty to require that a student apply for what amounted to compassionate relief at the earliest reasonable opportunity.

7. No. 5 - Appeal of Mr. A. from a decision of the Faculty of Education that courses taken more than five years ago cannot carry credit toward a Diploma in Education.

Decision: The appeal was dismissed. The Committee has no jurisdiction to amend a rule, approved by Senate, restricting credit for a Diploma in Education to courses taken within a five year time period.

8. No. 6 - Appeal of Mr. W. from a decision of the Faculty of Arts that he stand failed in Political Science 361. Mr. W. was enrolled in a course that ran over two terms. At the end of November, he was late in handing in a paper that counted for 50% of the grade in the course. Mr. W. did not have a medical excuse for handing in the paper late; he was simply unable to meet all of his academic commitments. He, and all the other students in the course, had been informed that no credit would be given for late papers, and no exception was made for Mr. W. He nevertheless attended classes in the second term and wrote the final exam but, predictably, his exam result was not sufficient to give him a passing grade.

Decision: The appeal was allowed, and the instructor was required to grade the paper and impose upon it a late penalty of not more than 20%. The Committee wishes to emphasize that it does not see this ruling as carrying with it an implication that faculty members can never impose a rule that papers that are turned in late without a medical excuse will be given no credit. This case turned on its particular circumstances, including the date the paper was due, the fact that the course ran over two terms, and Mr. W.’s demonstration of a good faith desire to satisfy the course requirements as evidenced by his willingness to attend classes in second term and write the exam.

9. No. 7 - Appeal of Mr. K. from a decision of the Faculty of Education that he stand failed in Education 329. Mr. K. succeeded in the physical education aspect of his practicum but was unsuccessful in the English instruction aspect. Mr. K. raised arguments that the negative assessments of the English instruction aspect of his practicum by two different supervising teachers and one member of the Faculty of Education doing a cross check were unfair.

Decision: The appeal was dismissed. The Committee heard from a number of witnesses, including both supervising teachers, and examined the documentary evidence used to support Mr. K.’s arguments, and we did not believe that Mr. K. had been unfairly or improperly evaluated. It was the Committee's view that Mr. K. placed excessive emphasis on the positive
aspects of the evaluations of his performance that he received, and that the weighing of the adequacy of his performance was a matter of academic judgment that was properly exercised by the Faculty."

Prof. Bryden
Dr. Mitchell

That the report be received for information.

TRIBUTES COMMITTEE
MEMORIAL MINUTE
The following memorial statement had been prepared in accordance with the custom of Senate, in recognition by the University and Senate of the late Paul Plant.

IN MEMORIAM
PAUL PLANT (1927-1991)

Of all the resources which sustain a great university, the support of its alumni is one of the most valuable. The University of British Columbia is fortunate in earning the loyalty of many dedicated graduates. Prominent among these was the late Paul Plant.

Mr. Plant was born in Toronto in 1927. He received his early education in Vancouver, and after graduating from Magee High School, enrolled in this university. He earned a B.A. degree in 1949. His years on campus were filled with activity. He was elected Treasurer of the Alma Mater Society and maintained a long and warm relationship with other members of the Student Council throughout his life. He also served faithfully as Manager of the 1948 Thunderbird Basketball Team, one of the most famous in the history of UBC athletics.

After graduation, Paul Plant began a successful business career in the lumber industry in British Columbia and Ontario. The high regard in which he was held by the industry culminated in his election as Lumberman of the Year by his professional association in 1987.
Mr. Plant was an untiring supporter of the Liberal Party of Canada. He served in numerous capacities, including a highly successful venture as co-chair for B.C. in the federal election of 1968. He was a passionate Canadian with a noble vision of his country which he never failed to share.

His deep relationship with the university also continued in a variety of ways. He served as President of the Alumni Association from 1960-62 and was elected as a representative to Senate from 1969 to 1975. As a member of this body he was elected to the Board of Governors, where he served for two terms between 1969 and 1974.

In the public arena, Mr. Plant undertook an extraordinary number of responsibilities. He was a director of the CBC from 1973-79, the Vancouver Port Corporation from 1982-84, and also as a member of the Board of the University Endowment Lands. He also accepted a term as President of the Greater Vancouver Family Services Association.

Paul Plant embodied all of the qualities which a university hopes to instill in its alumni. He was loyal, committed, and unwavering in his support of his Alma Mater. His love for his country, his province and his community was evident in every facet of his life. He accepted the responsibilities of leadership with energy and competence. He was also a dedicated family man who rejoiced in the successes of his children. He loved life and lived it in a manner which earned him respect from all quarters of society.

To his surviving family, the Senate of The University of British Columbia extends its deepest sympathy.

*Dr. Dennison  
Chancellor Peterson*  

That the memorial statement for Paul Plant be spread on the minutes of Senate and that a copy be sent to the relatives of the deceased.

Carried.

SCHOOL OF NURSING

English requirement

The following recommendations for the English requirement of the School of Nursing had been circulated:
"To qualify for the degree of B.S.N. students must complete English 112 and one other 3 credit first year English course.

Under the Four Year Program - replace English 100 with English 112 and one of English 110, 111, 120, 121."

Dean Meisen  
Prof. Carty  
\}  
That the recommendations for the English requirement of the School of Nursing be approved.

Carried.

Dr. Sobrino stated that one of the concerns of the Curriculum Committee was that students would segregate themselves into different sections, and requested that the Dean of Arts report to Senate next year on whether or not such segregation has occurred.

**Report of the Tributes Committee (in camera)**

**EMERITUS STATUS**

Dr. Dennison presented the following recommendations for emeritus status:

Mr. G. C. Archibald  --  Professor Emeritus of Economics;  
Dr. I. Avakumovic  --  Professor Emeritus of History;  
Dr. R. J. Bandoni  --  Professor Emeritus of Botany;  
Dr. W. C. Caird  --  Associate Professor Emeritus of Psychiatry;  
Dr. P. J. Doyle  --  Professor Emeritus of Surgery;  
Mr. T. Erickson  --  General Librarian Emeritus;  
Mr. D. C. Gillespie  --  Associate Professor Emeritus of Mathematics and Science Education;  
Dr. F. P. Glick  --  Associate Professor Emeritus of Health Care and Epidemiology;  
Mrs. M. E. Hardman  --  Senior Instructor Emerita of English;  
Dr. R. H. Hill  --  Professor Emeritus of Paediatrics;  
Dr. S. Iida  --  Professor Emeritus of Religious Studies;  
Dr. H. E. Jacobson  --  Associate Professor Emerita of Anthropology and Sociology;  
Dr. R. Lakowski  --  Professor Emeritus of Psychology;  
Dr. D. P. Lavender  --  Professor Emeritus of Forest Science;  
Mr. R. W. MacDonald  --  Assistant University Librarian;
Adjournment

Mr. B. Madsen  -- Professor Emeritus of Civil Engineering;
Dr. J. E. Miles  -- Professor Emeritus of Psychiatry;
Dr. S. Nakai  -- Professor Emeritus of Food Science;
Dr. T. G. Northcote -- Professor Emeritus of Forest Sciences;
Mrs. A. B. Piternick -- Professor Emerita of Library, Archival and Information Studies;
Mr. N. Poppe  -- Associate Professor Emeritus of Slavonic Studies;
Dr. W. D. Powrie -- Professor Emeritus of Food Science;
Miss I. Rebrin  -- Senior Instructor Emerita of Slavonic Studies;
Dr. W. F. Slawson -- Professor Emeritus of Geophysics and Astronomy;
Dr. E. G. Summers -- Professor Emeritus of Educational Psychology and Special Education;
Dr. A. E. Swanson -- Associate Professor Emeritus of Oral Medical and Surgical Sciences;
Dr. N. Watt  -- Associate Professor Emeritus of Physical Education;
Mrs. A. Yandle  -- Administrative Librarian Emerita;
Mr. M. N. Young -- Assistant Professor Emeritus of Theatre

Dr. Dennison
Dr. Birch

That the recommendations of the Tributes Committee concerning emeritus status be approved.

Carried.

Adjournment

The meeting adjourned at 9.10 p.m.

Next Meeting

The next regular meeting of Senate will be held on Wednesday, February 19, 1992.
APPENDIX

COURSE AND CURRICULUM PROPOSALS

FACULTY OF AGRICULTURAL SCIENCES

Agricultural Economics
Change ECON 206 - change description and footnote
AGEC 400 - change credits

Change program:

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSC 300</td>
<td>2</td>
</tr>
<tr>
<td>ECON 303 or AGEC 310</td>
<td>3</td>
</tr>
<tr>
<td>ECON 325 and 326</td>
<td>6</td>
</tr>
<tr>
<td>Plus – Management/Applied Economic electives</td>
<td>12</td>
</tr>
<tr>
<td>Plus – Unrestricted Electives</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>35</td>
</tr>
</tbody>
</table>

Change course prerequisites:

After Department and Faculty title insert:

Note: All courses in Agricultural Economics except AGEC 401 and 403 require ECON 100.

Change all other stated prerequisites to the following:

- 260 MATH 100 or 140
- 302 AGEC 201
- 361 MATH 100 or 140
- 407 ECON 201 or AGEC 310 and Econ 326 or COMM 291
- 411 ECON 201 or AGEC 310
- 420 ECON 201 or AGEC 310

Animal Science
Deletions ANSC 310, 421, 426, 435, 440, 470
Changes ANSC 320 - change in number, title, credits, description, prerequisite, now: ANSC 319 and 320
ANSC 303 - change cross-listing
ANSC 450, 460 - change title and description
New courses:
ANSC 421 (3) Monogastric Nutrition
ANSC 422 (3) Ruminant Nutrition

Program changes:
Second Year -- BIOL 201 has been moved into the core of all options and should be listed in one section rather than under the individual options.

Third and Fourth Years ANSC 319 and 320 have been moved into the core of all options.

Wildlife:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 321</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 424</td>
<td>3</td>
</tr>
<tr>
<td>FRST 202</td>
<td>3</td>
</tr>
<tr>
<td>FRST 395</td>
<td>3</td>
</tr>
<tr>
<td>FRST 495</td>
<td>3</td>
</tr>
<tr>
<td>PLNT 304</td>
<td>3</td>
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<tr>
<td>Plus</td>
<td>30 or 27 Electives 2, 4, 6, 7</td>
</tr>
<tr>
<td>Total</td>
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</table>

Notes:
7 Three credits of animal nutrition numbered 400 or greater must be included.

Livestock:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ANSC 313</td>
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<tr>
<td>ANSC 321</td>
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</tr>
<tr>
<td>ANSC 421</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 422</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 450</td>
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<tr>
<td>ANSC 460</td>
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<td>Plus</td>
<td>30 or 27 Electives 2, 3, 4, 5</td>
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## Fish:

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<td>ANSC 480</td>
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<td>ANSC 481</td>
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<td>ANSC 482</td>
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<td>BIOL 302</td>
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<td>BIOL 426</td>
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<td>Boil 485</td>
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<td>21 or 18 Electives 2, 3, 4, 6, 8</td>
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## Poultry:

<table>
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<tbody>
<tr>
<td>ANSC 307</td>
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<td>ANSC 321</td>
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<tr>
<td>ANSC 417</td>
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<td>ANSC 421</td>
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<td>ANSC 450</td>
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<td>Plus</td>
<td>30 or 27 Electives 2, 3, 4, 5</td>
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<td>Total</td>
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## Rangeland Resources:

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<tr>
<td>ANSC 321</td>
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<tr>
<td>ANSC 422</td>
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<tr>
<td>FRST 202</td>
<td>3</td>
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<tr>
<td>ECON 370</td>
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<td>PLNT 304</td>
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<td>PLT 404</td>
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<tr>
<td>SOIL 315 or 416</td>
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</table>
**Bio-Resource Engineering**

Changes
- BIOE 350 - change in number now 251
- BIOE 255 - change in number now 355
- BIOE 306 - change in description
- BIOE 356 - change in term
- BIOE 376 - change in description and prerequisite
- BIOE 390 - change in title and description

Changes to 2nd and 3rd year Bio-Resource Engineering program

**Plant Science**

Changes to Rangeland Resources
Changes
- PLNT 259 - change in hours
- PLNT 413 - change in term, prerequisite, hours
- PLNT 315, 338, 408, 409 - change in description and prerequisites
- PLNT 410 - change in term
- PLNT 411 - change course requirement

**Soil Science**

Deletions
- SOIL 301, 418, 419

New
- SOIL 101 (2) Environmental Management of Land, Soil and Water

Changes
- SOIL 200 - change title and prerequisites
- SOIL 416 - change title and description
- SOIL 300 - change title, description and hours
- SOIL 303 - change in number, now
- SOIL 403 SOIL 414 - change in number, now SOIL 314
- SOIL 315 - change in description and number, now SOIL 415
- SOIL 404 - change in title, prerequisites and number, now SOIL 304
- SOIL 413 - change title, description, prerequisites and number, now SOIL 313
- SOIL 333 - change hours, description, prerequisites and number, now SOIL 433
- SOIL 321 - change in description and prerequisites

Changes to B.Sc.(Agr.) in Soil Science Program
FACULTY OF APPLIED SCIENCE

Applied Science
Program changes - Replace ENGL 100 (6) by ENGL 112 or another First Year English course (3)

Change APSC 450 - change in description, hours, credits to (2)

Bio-Resource Engineering
Changes BIOE 355 - change in number (formerly 255)
BIOE 306, 376 - change in description
BIOE 251 - change in number (formerly 350)
BIOE 356 - change in term
BIOE 390 - change in title, description
SOIL 313 - change in number (formerly 413) - for information only

Change in programs:
Second Year BIOE 251 replaces BIOE 255
Third Year BIOE 355 replaces BIOE 350
Change SOIL 413 to: SOIL 313

Chemical Engineering
New CHML 376 (2) Computer Flowsheeting in Chemical Engineering

Civil Engineering
Changes CIVL 220, 310, 320, 407 - change in prerequisites/corequisites
CIVL 330 - delete prerequisite

Electrical Engineering
Changes ELEC 314, 315, 320, 389 - change in prerequisites
ELEC 477 - split into two courses:
  • ELEC 479 (3) Integrated Circuit Engineering
  • ELEC 480 (3) Semiconductor Devices
Changes in Regular Programs

Second Year  Add CPSC 128 as alternative to CPSC 118
Third Year  Replace CPSC 210 by CPSC 216
Fourth Year  In "B" group electives, replace ELEC 477* (6) by ELEC 479 (3) and ELEC 480 (3)

Computer Engineering Option

Third Year  List ELEC 389 as alternative course to CPSC 319
Fourth Year  Replace ELEC 477 by ELEC 479 and ELEC 480

Engineering Physics

Changes in Programs

Third Year  Core:  Delete CPSC 118
Option 1:  Add CPSC 128
Replace CPSC 210 by CPSC 216
Option 2:  Add CPSC 118
MECH 280 - change in title, hours

Fourth Year  Core:  Delete PHYS 351
Option 2: (MECH)
Option 3: (MMAT) Replace ELEC 367 by
Option 4: (GEOP) APSC 380
Option 6: (OCGY)
Option 3: (MMAT)
Change METL to MMAT
MMAT 370, 376, 378 - change in titles, credits, hours
Fifth Year
Core
Delete Footnote on PHYS 456 and 458
Change Elective requirement from two of the listed courses to three
Option 3: (MMAT)
Change METL to MMAT
MMAT 476 replaced in elective list by MMAT 369
MMAT 480 is given in second term

Mechanical Engineering
New
MECH 251 (3) Introduction to Design

Changes
MECH 250 - change in title, description, prerequisites, hours, credits to: (1)
MECH 265 - change in description
MECH 490 - change in description, prerequisite

Changes in programs
Second Year: Move MATH 257 and MMAT 380 to Third Year
Reduce MECH 250 in scope and hours
Add MECH 251

Fourth Year (Regular)
Elective list: Delete CPSC 350 and MATH 400;
Add MATH 350
Option in Industrial Aerodynamics and Aircraft
Add MATH 350 to electives list

Metals and Materials Engineering
New
MMAT 479 (2) Failure Analysis

Changes
MMAT 382 - change in hours

Changes in programs
Third Year
Core: Move MMAT 361 and 391 to core program (from technical electives)
Technical elective requirement reduced from 7 to 2 credits
Lab component of MMAT 382 reduced by 50%
Fourth Year Core: Delete MMAT 377
  Increase Technical elective requirement from 12 to 14

Fourth Year Option in Materials Science and Engineering
  Delete MMAT 478
  Add MMAT 479

Mining and Mineral Process Engineering
Changes in program
Fourth Year Option in Mineral Processing
  Add MMPE 462 to Option Core
  Reduce Technical elective requirement by 3 credits

Complementary Studies
Students must take the following Complementary courses:

1. Professional Development
   APSC 121
   APSC 450 (or equivalent)
   1 credit
   2 credits

2. English
   ENGL 112 (or another First Year English course)
   ENGL 301 or another approved Technical Writing course
   3 credits
   3 credits

3. Engineering Economics
   All engineering programs include a 3-credit engineering economics course, usually taken in third or fourth year. Approved courses include: CHML 359, CIVL 300, ELEC 450, MECH 391, MMAT 466 and MMPE 396.
   3 credits

4. Impact of Technology on Society
   Acceptable courses include: APSC 261 (3), APSC 262 (3), GEOG 310 (3), GEOG 415 (3), HIST/PHIL 115 (3), HIST 215 (6), HIST 425 (6), PHIL 313 (3), PHIL 314 (3), PHIL 407 (3), POLI 361 (6), SOCI 210 (6), SOCI 260 (3/6), URST 200 (6).
   3 credits

Students may seek approval for other courses from the Dean's Office for other courses in this area.
5. Humanities and Social Sciences Electives
   In general, scientific geography courses, statistical courses, studio/performance courses in fine arts, music and theatre, will not satisfy this requirement. Introductory language courses in a student's first language are not acceptable. Guidelines for acceptable courses are available from the Dean's Office.

FACULTY OF ARTS

Change to list A - change the entry for Italian to read: "Italian 100 (6), 101 (6), 105 (12), 200 (6)*, 201 (6)*" (*course has prerequisites)

Change to list B - Add Astronomy 310, Geophysics 310, Oceanography 310

Change in Faculty of Arts requirements - Language Proficiency Index:
   "During any term in which students are registered in a non-credit writing course at the University Writing Skills Centre, they may not register for more than twelve credits of work or the equivalent, without the permission of the Dean of Senior Adviser."

Change to Literature requirement - change the Germanic Studies entry to read:
   "...German 202, 301, 302 and Scandanavian 410, 411, 412..."

Anthropology

New ANTH 416 (3/6)d The Ethnography of Japan
ANTH 422 (3) Modes of Subsistence

Asian Studies

New ASIA 445 (6) Modern South Asian Fiction
ASIA 447 (3) Modern Drama of India

Creative Writing
Change in program statement
## New
- CRWR 417 (6) Play Development Workshop

## Changes
- CRWR 301 - change description
- CRWR 416 - change prerequisite

## Economics
- New: ECON 351 (3) Women in the Economy

## English
- Change: ENGL 301 - change description and prerequisite

## Geography
- New: GEOG 322 (3) Field Course in Human Geography
- GEOG 422 (3) Modes of Subsistence
- GEOG 460 (3) Geography of Manufacturing

### Change in program description
- Change to list A - change the entry for Geography to read:
  
  "GEOG 101 (6), 120 (6), 210 (3), 260 (3), 290 (3)"

- Change to list B - change the entry for Geography to read:
  
  "GEOG 200 (3), 204 (3), (205 (3), 207 (3), 306 (3), 370 (3), 372 (3), 373 (3), 374 (3)"

### Changes
- GEOG 110 - change in number, title and hours (now 210)
- GEOG 360, 425 - change title and description
- GEOG 190 - change number (now 290)
- GEOG 345 - change number (now 445)
- GEOG 351 - change number, title, description, prerequisite (now 321)
- GEOG 320 - change title, prerequisites, hours
- GEOG 410 - change description, hours
- GEOG 493 - change description
- GEOG 207, 415, 450 - change hours
- GEOG 315 - change prerequisite, hours
- GEOG 370 - change description and prerequisite

### Deletions
- GEOG 220, 324, 361, 424, 445, 467, 471, 473, 483, 490, 491
**Germanic Studies**

**Deletions**  
GERM 402, 403, 404, 406, 408, 409, 413, 423

**New**  
GERM 401 (3) The Cult of the Hero and its Parody in German Literature  
GERM 402 (3) Words and Music in German Literature  
GERM 404 (3) The Former German Democratic Republic and its Literature  
GERM 406 (3/6) Selected Topics in German Literature  
SCAN 410 (3) The Literatures of the Baltic in English Translation

**Changes**  
Course designation - (Calendar entry p.313) replace Germanic Studies with German (GERM) and (Calendar entry p.314) Germanic Studies (GMST) with Scandinavian (SCAN)  
GMST 301 - change number, title, description, hours, designation (now GERM 201)  
GMST 201 - change number, title, description, hours, designation (now GERM 202)  
GMST 303 - change number, title, description, hours, designation (now GERM 301)  
GMST 401 - change number, title, description, hours, designation (now GERM 302)  
GERM 405, 407 - change credits, title, description, hours  
GMST 302 - change in number and designation (now SCAN 301)  
GMST 412 - change in number and designation (now SCAN 401)  
GMST 411 - change designation and divide into two courses (now SCAN 411 and 412)

Change to list A - change the entry for Germanic Studies to read:  
"GERM 100 (6), 104 (12), 110 (6)*, 200 (6)*, 204 (12)*, ... SCAN 301 (6)...

Change to list B - change the entry for Germanic Studies to read:  
"GERM 201 (3), 202 (3), 210 (6), 301 (3), 302 (3), ... SCAN 401 (6), 410 (3), 411 (3), 412 (3)"

**History**

**Changes**  
HIST 307, 326 432 - change title and description
International Relations
Change program description

Linguistics
Change in program prerequisites
Changes LING 300, 319, 350, 400 - change prerequisite

Political Science
Change in program requirements and program admission

Psychology
New PSYC 201 (3) The Biopsychology of Behaviour
PSYC 202 (3) Cognition and Perception
PSYC 203 (3) Personality and Social Psychology
PSYC 204 (3) Abnormal and Health Psychology
PSYC 315 (3) Childhood and Adolescence
PSYC 319 (3) Applied Developmental Psychology
PSYC 325 (3) Socialization: Development in Context
PSYC 412 (3) Cognitive Development
PSYC 413 (3) Social and Personality Development
Change in program statement and amendment to general course prerequisites and to B.Sc. program exceptions
Changes PSYC 300, 302, 303, 304, 305, 308, 314, 321 - change description
PSYC 320 - change title and description
PSYC 322 - change title, credits, description
PSYC 414 - change title, description, prerequisite
Deletions PSYC 200, 206, 301, 405

Religious Studies
Change RELG 321 - change title, description, hours
Slavonic Studies

Change program statement to read:

**Russian**

At present the Department of Russian and Slavic Languages and Literatures offers a program of study that leads to the degree of B.A. in Russian. Requirements for the B.A. Degree:

**Major in Russian**

*First and Second Years*

Russian 100 (or 101 and 102) and 200; or Russian 110

Russian 215

At least one of Russian 206 and 207; Slavic Studies 105 recommended.

*Third and Fourth Years*

Russian 300, 305, 315, 400

6 credits from Russian 303, 407, 408, 409.

3 additional credits in Fourth-Year Russian.

The following courses are recommended as electives:

Linguistics 100 and 420, History 405 and 438, Political Science 325 and 362, Geography 394.

Students with prior knowledge of Russian may satisfy any language or prerequisite requirement by means of a placement examination.

**Honours in Russian**

*First and Second Years*

As for Major. At least a grade of 75 percent in each language course taken is required for entry to third year.

*Third and Fourth Years*

Russian 300, 305, 315, 400

Russian 449

15 credits from Russian 303, 403, 407, 408, 409, 415 or one university-level course in a Slavic language.

Students are advised to take Linguistics 100 or 420.

History 405 and 438, Political Science 325 and 362, and Geography 394 are recommended as electives.

**Changes**

RUSS 100 - change title and description
RUSS 101, 102 - change in hours
RUSS 110 - change hours, title and description
RUSS 200 - change description and prerequisite
SLAV 206 - change in course designation, credits, title, hours, description, (now RUSS 206 and 207)
RUSS 215, 315 - change description, prerequisites and hours
RUSS 300, 400 - change title, description, prerequisite
RUSS 305 - change credits, title, description, hours, prerequisite
SLAV 306 - change course designation and description (now RUSS 306)
RUSS 325 - change description and number (now RUSS 401)
RUSS 430 - change credits, title, description, prerequisite, hours and number (now RUSS 407)
RUSS 431 - change credits, title, description, prerequisite, hours and number (now RUSS 408)
RUSS 433 - change description, prerequisite and number (now RUSS 409)
SLAV 446 - change designation, title, description, hours and number (now RUSS 410)
SLAV 308 - change designation, title, description, and number (now RUSS 411) SLAV 105 -change designation, title and description (now Slavic Studies 105) SLAV 307 -change designation, title and description (now Slavic Studies 307)

Deletions
RUSS 349, 425, 432, SLAV 110, 310, 340, 447, 448, CZVK 325, POLS 445, 446

New
RUSS 403 (3/6)d Topics in Russian Language and Linguistics
POLS 345 (3/6)d Introduction to Twentieth-Century Polish Literature

**Slavonic Area Studies**
Change Program Statement:
Change Slavonic Area Studies to read: Slavic Area Studies

**Sociology**
New
SOCI 416 (3/6)d The Ethnography of Japan

**Theatre and Film**
New
FILM 435 (3) Directing
FILM 437 (3) Camera, Lighting and Sound Recording
FILM 439 (3) Post-production Techniques
Change in program statements
Changes
- FILM 233, 333 - change title
- FILM 431 - change credits
- FILM 433, 434 - change credits, title, description

Urban Studies
Change
 URST 400 - change hours

Women's Studies
Change in program statement

FACULTY OF COMMERCE AND BUSINESS ADMINISTRATION
Changes
- COMM 306, 308 - change in title and description
Program changes: Replace ENGL 100 (6) with completion of 6 credits of 100 level English courses, of which 3 credits must be ENGL 112

FACULTY OF FORESTRY

B.Sc. (Natural Resources Conservation)
This is an interdisciplinary program designed to prepare students for careers in the conservation of renewable natural resources, the management of protected areas, and planning for the integrated use of forests and associated wildlands. The program provides students with an understanding of the sciences and social sciences underlying the conservation and management of resources associated with wildlands, an appreciation for the political and socioeconomic environments in which decisions concerning the establishment and management of protected areas are made, and a working knowledge of technologically advanced tools and quantitative techniques available to renewable resource planners and managers. Throughout the program, emphasis is placed on developing skills in communication, both oral and written, including approaches to public participation in natural resources planning and the techniques of conflict resolution.
The program consists of 129 credits taken over a four year period. Following a two year common core of 63 credits, students must choose one of three areas of concentration: nature conservation, wildland recreation and parks management; wildlife management; or conservation and natural resource planning. Each area of concentration consists of 66 sessional credits including 24 credits common to all programs.

Following years two and three, students must register in the cooperative summer internship program. This is a field work program, for which the student will receive remuneration, conducted by the Faculty of Forestry in conjunction with public resource agencies and the private sector.

<table>
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<tr>
<th>Study Programs</th>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
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<tr>
<td>BIOL 101 or 102 or 103</td>
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<td>CHEM 103</td>
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<tr>
<td>FRST 111</td>
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<td>PHIL 102</td>
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1 Students with Math 100 and 101 and a first year Physics course may replace CHEM 103 with CHEM 110 or 120.

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<td>PSYC 100</td>
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<td>SOCI 100</td>
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Total number of credits for First and Second Years: 63
Areas of Concentration

1. Nature Conservation, Wildland Recreation and Parks Management

<table>
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<td>CONS 330</td>
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Footnotes:
1. Electives should be chosen in consultation with a Faculty advisor. At least 6 credits must be chosen from the following: FRST 306, ENGL 301, SOCI 360, POLI 302, LAW 356, ECON 371.
2. Summer internship to be taken between second and third years.
3. Summer internship to be taken between third and fourth years.

2. Wildlife Management

<table>
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<td>FRST 302</td>
<td>CONS 440</td>
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<td>AGSC 213</td>
<td>ANSC 424</td>
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### Fourth Year Credits

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</table>

Footnotes:

1. Electives must be chosen in consultation with a Faculty advisor. At least 6 credits must be chosen from the following: BIOL 205, ENGL 301, LAW 356, FRST 306, FRST 387, PLNT 404.
2. Summer internship to be taken between second and third years.
3. Summer internship to be taken between third and fourth years.

3. Conservation and Natural Resources Planning

<table>
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<tr>
<td>FRST 231</td>
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<tr>
<td>FRST 302</td>
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<td>AGSC 213</td>
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<tr>
<td>CONS 320</td>
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<td>FRST 385</td>
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<tr>
<td>ECON 374</td>
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Footnotes:

1. Electives must be chosen in consultation with a Faculty advisor. At least 6 credits must be chosen from the following: BIOL 205, ENGL 301, LAW 356, FRST 306, FRST 387, PLNT 404.
2. Summer internship to be taken between second and third years.
3. Summer internship to be taken between third and fourth years.
Footnotes:

1 Electives must be chosen in consultation with a Faculty advisor. At least 6 credits must be chosen from the following: ENGL 301, ECON 301, ECON 371, POLI 302, LAW 356, CONS 330, FRST 392.

2 Summer internship to be taken between second and third years.

3 Summer internship to be taken between third and fourth years.

Courses towards registration as a Professional Forester in the Province of British Columbia

Students in the B.Sc. (Natural Resources Conservation) program who wish to work towards membership in the Association of Professional Foresters are advised to include courses from the following list in their choices of electives.

<table>
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Footnotes:

1 Students wishing to take these courses must have completed MATH 101 or MATH 141.

New

CONS 200 (3) Foundations of Conservation and Natural Areas Management
CONS 299 (0) Internship I
CONS 320 (3) Natural Resource Communications
CONS 330 (3) Introduction to Wildlife Management
CONS 399 (0) Internship II
CONS 430 (3) Management of Problem Wildlife
CONS 440 (3) Recreation and Conservation Policy
CONS 481 (3) Park Planning
CONS 498 (4) Thesis or Special Project
Changes
FRST 290 - change title and description
FRST 292, 491 - change title, description, hours
FRST 302, 392, 495 - change description

Forest Resources Management
Deletion
FRST 425
New
FRST 100 (2) Introduction to Forestry
FRST 423 (3) Integrated Resources Management I (effective September 1994)
Changes
FRST 131 - change in number (now 231) and corequisite
FRST 132 - change in number (now 232)
FRST 385 and 386 - change in number (now 387), title, hours, credits, description (effective September 1993)
FRST 421 - change title and prerequisite (effective September 1994)
Program changes
changes to the Forest Resources Management Major (B.S.F.);
changes to the Three-Year Program in Forest Resources Management Major for B.C. Forestry Technology Graduates

Forest Sciences
Deletions
FRST 204, 205
New
FRST 202 (3) Forest Ecology
FRST 203 (3) Silvics of Forest Trees of Western Canada
Changes
FRST 399 - change credits and vector
FRST 411 - change prerequisite
Program changes
changes to the Forest Sciences Major B.Sc. (Forestry)

Harvesting and Wood Science
Changes
WOOD 372, 374 - change in vector
FRST 262 - change title, hours, credits, description
WOOD 335 - change title, hours, description, prerequisite
FORH 359 - change description, prerequisite, vector
FORH 362 - change description, hours, prerequisite
Program changes
changes to the Wood Science and Industry Major B.Sc. (Forestry)
Calendar entry for students entering from BCIT

Areas of Concentration: Business Management and Marketing; Industrial Processing Technology; Science, Engineering and Biotechnology.
FACULTY OF GRADUATE STUDIES

Animal Science

Change   ANSC 500 - change title, credits, description

Applied Science

New   APSC 597 (6) Project for M.Eng. Program in Pulp and Paper Engineering

Astronomy

New   ASTR 538 (2-6)c Studies in Cosmology

Audiology and Speech Sciences

New Courses (all courses numbers are prefixed with AUDI)

AUDI 400 (3) Introduction to Speech-Language Pathology and Audiology
AUDI 402 (3) Introduction to Neurolinguistics
AUDI 530 (2) Research Methods
AUDI 660 (1-9)d Seminar in Hearing Science
AUDI 670 (1-9)d Seminar in Developmental Phonetics and Phonology
AUDI 672 (1-9)d Seminar in Linguistic Aphasiology
AUDI 675 (1-9)d Seminar in Developmental Language Disorders
AUDI 685 (1-9)d Seminar in Language Development
AUDI 690 (1-9)d Seminar in Speech Science

New courses that result from the reorganization of content in current courses

AUDI 516 (3) Discourse Analysis
AUDI 522 (3) Communication Disorders: Assessment and Intervention
AUDI 545 (0) Issues in Clinical Practice
AUDI 562 (3) Childhood Hearing Disorders
AUDI 575 (3) Language Development and Disorders in the School Years
AUDI 583 (3) Advanced Speech Science

Courses with changes in number, title, credit and/or descriptions only - no substantive content change or reorganization

AUDI 513 (3) Acoustic Phonetics
AUDI 546 (1-9)d Seminar in Audiology and Speech-Language Sciences
AUDI 547 (1-9)c Directed Reading in Audiology and Speech Sciences
AUDI 548 (0) M.Sc. Graduating Essay
AUDI 564 (3) Advanced Hearing Science
AUDI 567 (2-8)d Topics in Audiology and Hearing Science
AUDI 569 (3) Audiology Practicum I
AUDI 572 (3) Linguistic Aphasiology
AUDI 587 (2-8)d Topics in Speech-Language Sciences
AUDI 589 (3) Speech-Language Pathology Practicum II
Courses that result from the splitting of current courses and some limited content reorganization

AUDI 514 (3) Auditory Mechanisms I
AUDI 518 (3) Fundamentals of Audiology
AUDI 598 (2) Fundamentals of Audiology for Health and Education Professionals
AUDI 520 (3) Developmental Phonetics and Phonology
AUDI 523 (3) Experimental Phonetics
AUDI 526 (3) Acquired Language Disorders
AUDI 528 (3) Aural Rehabilitation: Principles and Practice
AUDI 552 (3) Audiological Assessment I
AUDI 554 (3) Auditory Mechanisms II
AUDI 556 (3) Aural Rehabilitation: Instrumentation
AUDI 558 (3) Physiological Measurement of Auditory Function
AUDI 559 (2) Practicum in Speech-Language Pathology for Audiology Majors
AUDI 560 (3) Audiological Assessment II
AUDI 568 (6) Audiology Practicum I
AUDI 570 (3) Phonological and Phonetic Disorders
AUDI 571 (3) Developmental Language Disorders
AUDI 576 (3) Disorders of Speech Production
AUDI 579 (2) Practicum in Audiology for Speech-Language Pathologists
AUDI 580 (2) Developmental Speech Perception
AUDI 581 (3) Communication: Special Populations
AUDI 585 (2) Determinants of Language Development
AUDI 586 (3) Acquired Speech and Language Disorders II

Deletion of existing courses (effective September, 1992)

AUDI 512 (3) Sensory Physiology: Hearing and Vision
AUDI 548 (2) Department Seminar
AUDI 595 (0) M.Sc. Major Essay

Deletion of existing courses to prevent confusion in course numbering; similar or identical course content now resides elsewhere in the curriculum (effective September, 1994)

AUDI 500 (4) Acoustic Phonetics
AUDI 501 (4) Instrumental Phonetics
AUDI 502 (4) Mechanisms of the Auditory System
AUDI 503 (4) Auditory Functions
AUDI 504 (6) Developmental Phonology
AUDI 505 (6) Acquisition of Language
AUDI 506 (3) Speech Perception
AUDI 507 (3) Neurolinguistics
AUDI 508 (6) Clinical Audiology
AUDI 509 (6) Clinical Speech-Language Pathology
AUDI 510 (4) Advanced Clinical Audiology
AUDI 511 (4) Advanced Clinical Speech-Language Pathology
AUDI 541 (2) Clinical Practice in Audiology
AUDI 542 (2) Clinical Practice in Speech-Language
AUDI 543 (4) Advanced Clinical Practice in Audiology
AUDI 544 (4) Advanced Clinical Practice in Speech-Language Pathology

REVISIONS TO CALENDAR STATEMENTS

**Bio-Resource Engineering**
Changes  
BIOE 561, 562 - change credits, description  
BIOE 563 - change credits

**Chemical Engineering**
New  
CHML 563 (2) Applied Heterogeneous Catalysis  
CHML 579 (2) Environmental Protection Control in the Pulp and Paper Industry
Deletion  
CHML 597

**Chemistry**
New  
CHEM 501 (3) Introductory Quantum Mechanics  
CHEM 503 (3) Equilibrium Statistical Mechanics in Chemistry  
CHEM 504 (3) Relaxation Phenomena in Chemistry  
CHEM 510 (3) Scattering Theory and Quantum Mechanics  
CHEM 523 (3) Applied Inorganic Chemistry  
CHEM 528 (3) Symmetry and Molecular Spectroscopy in Inorganic Chemistry  
CHEM 529 (3) Structural Methods in Inorganic Chemistry  
CHEM 561 (3) Organic Chemistry  
CHEM 562 (3) Advanced Organic Chemistry
Changes  
CHEM 508 - change in description and title
Deletions  
CHEM 500, 502, 520, 532, 542, 560
Civil Engineering
Change   CIVL 579 - change in description

Commerce and Business Administration
New       COMM 519 (3) Managing Business Risk
          COMM 609 (3) Seminar in Urban Land Economics
          COMM 546 (3-6)d Selected Topics in International Business
Changes   COMM 500 - change credits to (3-30)
          COMM 503, 504, 505, 506, 507, 508, 520, 524, 528, 589 - change title and description
          COMM 509, 533, 534 - change description
          COMM 595 - change description and prerequisite

Computer Science
New       CPSC 533 (2-6)d Topics in Computer Graphics

Creative Writing
New       CRWR 517 (6) Advanced Play Development Workshop Curriculum and Instruction
Change    EDCI 566 - change in prerequisite

Education
Office of Graduate Programs - change in application deadlines

Educational Psychology and Special Education
Change    EPSE 536 - change in prerequisite and description

Electrical Engineering
New       ELEC 584 (2) Electrical Communications and Power Cables
          ELEC 591 (2) Applied Digital Signal Processing
Changes   ELEC 575, 594 - change in title, description

English
Change    ENGL 500 - change description
Fine Arts
Program changes:
   Under M.A. program - change paragraph to read:
   "The M.A. in Art History...reading knowledge of one language...".
   M.F.A. program - change in Calendar entry

Food Science
New FOOD 518 (2) Food Toxicology and Assessment

Forestry
New FRST 509 (3) Plant Genetic Engineering Laboratory
     FRST 528 (3) Communication and Conflict Resolution
     FRST 534 (3) Case Studies in Integrated Forest Resources Management
     FRST 540 (3) Information Systems for Forest Management
     FRST 541 (3) Forest Land Management
     FRST 551 (3) Field Work in Integrated Forest Resources Management
Change FRST 517 - change in credits and description
Deletions FRST 523, 525, 542
Changes to Calendar statement under M.F. degree

Geography
New GEOG 517 (3) Environmental Sustainability

Geophysics
New GEOP 507 (3) Linear Inverse Theory GEOP 525 (3) Rock Physics

Germanic Studies
Change GMST 510 - change designation and number, now SCAN 501

Library, Archival and Information Studies
Change LIBR 510 - change title
Mechanical Engineering
New MECH 542 (3) Advanced Marine Vehicles
Changes MECH 597 - change in title, description
Deletion MECH 596

Metals and Materials Engineering
Change MMAT 550 - change in credits to: (2-4)c

Microbiology
New MICB 502 (3) Advanced Immunogenetics

Oceanography
Changes OCGY 511, 512 - change credits
OCGY 515, 518 - change description

Plant Science
New PLNT 514 (3) Plant Genetic Engineering Laboratory

Psychology
Changes PSYC 533, 543 - change credits

Slavonic Studies
Delete Graduate Program, and the following courses:

Soil Science
Changes SOIL 513, 516 - change title, credits, description, prerequisites
SOIL 517 - change title, credits, description
SOIL 518 - change title, hours, credits, description, prerequisites
SOIL 533 - change credits
APPENDIX

Statistics
Change

STAT 519, 531, 532, 534, 541 - change prerequisites
STAT 542, 545 - change prerequisite/corequisite
STAT 544 - delete corequisite

Theatre and Film
Changes

FILM 531 - change credits, title, description
FILM 532, 533, 534 - change credits and title

Deletion

FILM 535

Zoology
Change

ZOOL 527 - change in credits