

SIMON FRASER UNIVERSITY

S.85-61

MEMORANDUM

To.....Members of Senate.....

From.....Office of the Dean of Graduate Studies.....

Subject.....Graduate Curriculum Changes.....
Department of Biological Sciences

Date.....November 13, 1985.....

Action undertaken by the Senate Graduate Studies Committee at its Meeting on November 12, 1985, gives rise to the following motion:

MOTION:

"That Senate approve and recommend approval to the Board of Governors, as set forth in S.85-61, the proposed Graduate Curriculum Changes in the Department of Biological Sciences:

i) Deletion of Courses

BiSc 809 Student Seminar
BiSc 825 Forest Physiology
BiSc 826 Advanced Electrophysiology
BiSc 835 Photobiology
BiSc 866 Selected Topics in Plant Development

ii) Change BiSc 811- Title/Description

From: Molecular Biology. The methods and approaches for studying DNA structure, transcription and translation will be critically reviewed. Selected modern studies of molecular biological interest will be examined in detail.

To: The Molecular Biology of Prokaryotes. Selected modern studies in this area will be critically reviewed.

Change BiSc 861 - Title/Description

From: Advanced Studies in Molecular Biology. Contemporary basic studies in molecular biology will be examined in detail. The current research literature on topics such as DNA structure, transcriptional and translational mechanisms and their regulation, will be critically assessed.

Graduate Curriculum Changes Continued

To: The Molecular Biology of Eukaryotes. Current research literature will be examined in detail.

iii) Change title/description for BiSc 806

From: Adaptation and Adaptability. Beginning with a survey of the principles and methodology of biosystematics and experimental taxonomy, examines a number of different levels of biological plasticity. From the immediate behavioural level, through the ontogenetic to the long-term evolutionary, each level will be discussed from the viewpoint of its scientific and humanistic implications.

To: Evolutionary Theory. A consideration of recent advances and current controversies in our understanding of the development, diversification and adaptation of life through natural selection.

Change title/description for BiSc 824

From: Selected Topics in Population Ecology. Discussions of interacting systems within and without animal populations and their role in the regulation of population numbers.

To: Survival Strategies. An examination of how organisms acquire, sequester and allocate the resources necessary for survival.

Change title/description for BiSc 827

From: Behavioural Ecology. A seminar course on the ecological correlates of animal behaviour and the role of behaviour in determining the outcome of ecological processes.

To: Behavioural Ecology Seminar. An introduction to the important issues, methods and philosophy of behavioural ecology, and discussion current topics. Grading will be on an S/U basis.

Change title/description for BiSc 836

From: Vertebrate Reproductive Ecology. A seminar course of the environmental effects on the quantifiable parameters of vertebrate reproduction with special emphasis on mammals. The role of photoperiod, temperature, nutrition, and social factors on puberty, breeding seasons and pregnancy.

To: Reproductive Strategies. An examination of the behavioural, ecological and life history means whereby organisms maximize their lifetime reproductive success."

Rationale for these changes is outlined in the attached paper.



Bruce P. Clayman
Dean of Graduate Studies.

SIMON FRASER UNIVERSITY

MEMORANDUM

To: R. Heath
Secretary to Senate

From: P. Dobud, Administrative
Assistant to the Dean of
Science

Subject: Calendar Changes: Department
of BIOLOGICAL SCIENCES

Date: October 17, 1985

The Faculty of Science, at its meeting held on Tuesday October 15, 1985, approved the following graduate courses changes to the graduate program in the Department of Biological Sciences. Therefore, I would appreciate it very much if you would place these items on the agenda of the next Senate Graduate Studies Committee meeting for consideration and approval.

- 1) Deletion of the courses: BISC 809, 825, 826, 835, and 866.
- 2) Changes in the title and calendar description of BISC 811 and 861.
- 3) Changes in the title and calendar description of the following Behavioural Ecology Courses:
BISC 806, 824, 827, and 836.

Details for these changes are given in the attached PAPER: FSC-85-21.



Thank you.

c.c. Dr. A.R. Freedman, Chairman, Faculty of Science Graduate Studies Committee.
Dr. L.M. Srivastava, Chairman, Department of Biological Sciences.
Dr. L.M. Dill, Chairman, Graduate Studies Committee, Department of Biological Sciences.

SIMON FRASER UNIVERSITY

MEMORANDUM

FSC - 85 - 21

To..... Dr. A.R. Freedman, Chairman,
..... Faculty Graduate Studies Committee.
Subject. Calendar Changes

From..... L.M. Dill, Chairman, DGSC,
..... Biological Sciences.
Date..... October 11, 1985

The DGSC requests approval of the following calendar changes:

1. Deletion of the following courses:

- BISC 809 - Student Seminar
- " 825 - Forest Physiology
- " 826 - Advanced Electrophysiology
- " 835 - Photobiology
- " 866 - Selected Topics in Plant Development

Rationale: These courses have not been taught since:

BISC 809 (75-1), 825 (69-3), 826 (73-2), 835 (70-1), 866 (never).

2. Changes in the titles and calendar descriptions of BISC 811 and 861.

Present calendar descriptions:

BISC 811 - Molecular Biology. The methods and approaches for studying DNA structure, transcription and translation will be critically reviewed. Selected modern studies of molecular biological interest will be examined in detail.

BISC 861 - Advanced Studies in Molecular Biology. Contemporary basic studies in molecular biology will be examined in detail. The current research literature on topics such as DNA structure, transcriptional and translational mechanisms and their regulation, will be critically assessed.

To become:

BISC 811 - The Molecular Biology of Prokaryotes. Selected modern studies in this area will be critically reviewed.

BISC 861 - The Molecular Biology of Eukaryotes. Current research literature will be examined in detail.

Rationale: To avoid apparent duplication suggested by the present descriptions.

3. Changes in the titles and/or calendar descriptions of the following Behavioural Ecology courses:

Present calendar description:

BISC 806 - Adaptation and Adaptability. Beginning with a survey of the principles and methodology of biosystematics and experimental taxonomy, examines a number of different levels of biological plasticity. From the immediate behavioural level, through the ontogenetic to the long-term evolutionary, each level will be discussed from the viewpoint of its scientific and humanistic implications.

BISC 806 - Title changes to: "Evolutionary Theory"

- Course description becomes: "A consideration of recent advances and current controversies in our understanding of the development, diversification and adaptation of life through natural selection."

Present calendar description:

BISC 824 - Selected Topics in Population Ecology. Discussions of interacting systems within and without animal populations and their role in the regulation of population numbers.

BISC 824 - Title changes to "Survival Strategies".

- Course description becomes: "An examination of how organisms acquire, sequester and allocate the resources necessary for survival."

Present calendar description:

BISC 827 - Behavioural Ecology. A seminar course on the ecological correlates of animal behaviour and the role of behaviour in determining the outcome of ecological processes.

BISC 827 - Title changes to "Behavioural Ecology Seminar".

- Course description becomes: "An introduction to the important issues, methods and philosophy of behavioural ecology, and discussion of current topics. Grading will be on an S/U basis."

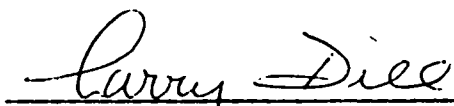
Present calendar description:

BISC 836 - Vertebrate Reproductive Ecology. A seminar course of the environmental effects on the quantifiable parameters of vertebrate reproduction with special emphasis on mammals. The role of photoperiod, temperature, nutrition, and social factors on puberty, breeding seasons and pregnancy.

BISC 836 - Title changes to "Reproductive Strategies".

- Course description becomes: "An examination of the behavioural, ecological and life history means whereby organisms maximize their lifetime reproductive success."

Rationale: To provide Graduate students in Behavioural Ecology with a cohesive program of graduate courses reflecting current interests of the faculty.


L.M. Dill

SIMON FRASER UNIVERSITY

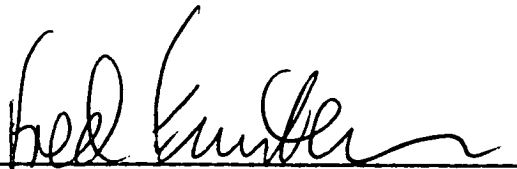
MEMORANDUM

To..... Dr. A.R. Freedman, Chairman,
..... Faculty Graduate Studies Committee.
Subject. Calendar Changes

From. See below

Date. October 11, 1985

I approve of the attached graduate calendar changes suggested by the
Department of Biological Sciences.



Dr. F.W.B. Einstein, Chemistry

Dr. R.H. Enns, Physics

LMD:em

encl.

*The Faculty GSC
approved the attached calendar changes.
A.R. Freedman
Chairman
Fac GSC.*

I approve of the attached graduate calendar changes suggested by the
Department of Biological Sciences.

Dr. F.W.B. Einstein, Chemistry



Dr. R.H. Enns, Physics