

SIMON FRASER UNIVERSITY

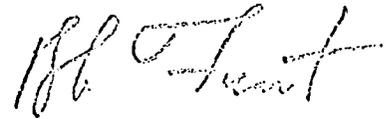
MEMORANDUM

EGS-57
S. 300

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| Mr. H. Evans, Secretary, | From | B. L. Funt |
| Senate Committee on Graduate Studies | | Dean of Science |
| Subject: Graduate Courses in Biological Sciences - 832 & 833 | Date | October 22, 1969 |

At its meeting of October 20th the Faculty of Science approved courses 832 and 833 at the graduate level in the Department of Biological Sciences. These courses had been previously considered and recommended by the Faculty of Science Graduate Studies Committee.

I would appreciate it if you would ensure that these are considered at the earliest opportunity, by the Senate Committee on Graduate Studies and subsequently by Senate, with minimal delay, so that they can be included in the Calendar Submissions for 1970-71 Calendar.



BLF:mb

c.c. Dr. G. H. Geen
Acting Head, Biological Sciences

Miss M. McGinn

Approved by the Executive Committee of the Senate Committee on Graduate Studies, November 1969.

FACULTY OF SCIENCE

3. ii) Report from Graduate Studies Committee

a) New Courses in Biological Sciences

These courses have been approved by mail by the Graduate Studies Committee of the Faculty and this approval was to have been ratified at a meeting scheduled for October 15th. Since a quorum was not present, this meeting was adjourned.

It is recommended that the Faculty approve these courses and that they be submitted to Senate for approval.

B. L. Funt

Approved by the Faculty of Science at its meeting of October 20, 1969

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: Biological Sciences Course Number: 833 Title: The Biology

Sub-title or Description: of Estuaries

A survey of structure and dynamics of estuaries and associated chemical factors with emphasis on fauna and field surveys of local estuarine conditions. Adaptation and evolution in estuaries will be considered.

Credit Hours: 3 Vector Description: 1-0-4

Pre-requisite(s): Permission of the Instructor

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 10

Semester Offered (e.g. Yearly, every Spring; twice yearly, Fall and Spring):

As required by the graduate students

When course will first be offered:

Has already been offered as a Special Topics Course (Biology 859-)

III JUSTIFICATION

A. What is the detailed description of the course including differentiation from lower level courses, from similar courses in the same department and from courses in other departments in the University?

There are no comparable courses in the department or other departments of the University.

B. What is the range of topics that may be dealt with in the course?
Lecture and laboratory consideration of organisms in estuaries with particular reference to the structure and dynamics of estuaries and their plant and animal populations.

C. How does this course fit the goals of the department?

Contributes to graduate training in marine biology, one of the areas of emphasis of the department.

D. How does this course affect degree requirements?

N/A

E. What are the calendar changes necessary to reflect the addition of this course?

New Entry

F. What course, if any, is being dropped from the calendar if this course is approved?

N/A

G. What is the nature of student demand for this course?

Likely to be general amongst graduate students in marine biology

H. Other reasons for introducing the course.

Competence of available faculty to offer this course.

IV

BUDGETARY AND SPACE FACTORS

A. Which faculty will be available to teach this course?

Dr. N. D. Haven

B. What are the special space and/or equipment requirements for this course?

Nil

C. Any other budgetary implications of mounting this course:

Nil - Faculty already on campus who have taught this course

APPROVAL -

^{GRADUATE STUDIES}
Faculty Undergraduate Curriculum Committee: OCTOBER 1, 1969

Faculty: OCTOBER 20, 1969

Senate:

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: Biological Sciences Course Number: 832 Title: Marine
Sub-title or Description: Microbiology

The relationship of marine microbes to the biological,
chemical and physical parameters of the oceanic environment.

Credit Hours: 3 Vector Description: 3-0-0

Pre-requisite(s): Permission of the instructor.

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 6-10

Semester Offered (e.g. Yearly, every Spring; twice yearly, Fall and
Spring):

As required by graduate students

When course will first be offered: Has already been offered as
Biology 859-3. Will probably be offered in 70-3.

III JUSTIFICATION

A. What is the detailed description of the course including differentiation
from lower level courses, from similar courses in the same department
and from courses in other departments in the University?

There are no courses with similar content in the
Department of Biological Sciences or other departments
of the University.

B. What is the range of topics that may be dealt with in the course?

The effect of physical, chemical and biological factors
on oceanic microbes.

C. How does this course fit the goals of the department?

Contributes to graduate training in marine biology, one of the areas of emphasis of the department.

D. How does this course effect degree requirements?

N/A

E. What are the calendar changes necessary to reflect the addition of this course?

New entry

F. What course, if any, is being dropped from the calendar if this course is approved?

N/A

G. What is the nature of student demand for this course?

Likely to be general amongst graduate students in marine biology.

H. Other reasons for introducing the course.

Competence of available faculty to offer this course.

IV BUDGETARY AND SPACE FACTORS

A. Which faculty will be available to teach this course?

Dr. L. J. Albright

B. What are the special space and/or equipment requirements for this course?

Nil

C. Any other budgetary implications of mounting this course:

Nil - Faculty already on campus who have taught this course.

APPROVAL - ^{GRADUATE STUDIES} Faculty Undergraduate Curriculum-Committee: October 1, 1969

Faculty: OCTOBER 20, 1969

Senate:

SIMON FRASER UNIVERSITY

MEMORANDUM

| | |
|---|-----------------------------------|
| Dean B. L. Funt | From Dr. G. H. Geen, Acting Head, |
| Faculty of Science. | Dept. of Biological Sciences. |
| Subject 1970-71 Calendar New Courses | Date September 25, 1969. |

The following new or revised description of courses are submitted for approval and inclusion in the new Calendar.

Undergraduate

Nil at this time.

Graduate

a) New Courses

832-3 Marine Microbiology

The relationship of marine microbes to the biological, chemical and physical parameters of the oceanic environment.

(Dr. L. J. Albright)

833-3 The Biology of Estuaries

A survey of structure and dynamics of estuaries and associated chemical factors with emphasis on fauna and field surveys of local estuarine conditions. Adaptation and evolution in estuaries will be considered.

(Dr. Norine Haven)

These graduate courses have already been offered in 69-1 by Dr. Norine Haven and in 69-2 by Dr. L. J. Albright under 859-3, Special Topics I. They will be continuing courses and therefore are being allotted specific numbers. This Department will ensure that students who have already completed the courses will not be given credit subsequently under the new number.

b) Reworded Course Descriptions

*Note for Calendar
Revisions*

844-3 Biology of Entomophagous Insects

Bionomics, ecology and physiology of insect parasites, with emphasis on parasitic Hymenoptera. Selected topics of insect parasitism including host specificity, immune reactions, and genetics and evolution of host-parasite associations. Principles of biological controls.

(Dr. J. P. M. Mackauer)

846-3 Insecticide Chemistry and Toxicology

The chemistry of insecticides, with emphasis on their toxicology, metabolism and fate in the environment.

(Dr. P. C. Oloffs)

Glen H. Geen

Glen H. Geen,
Acting Head.

GHG/ms

