

SIMON FRASER UNIVERSITY

S. 429

MEMORANDUM

File No.
F-8-5
F-8-2

To Mr. H. Evans
Secretary of Senate
Subject Senate Papers

From B.L. Funt
Dean of Science
Date October 21, 1970

I enclose proposals for new courses as approved by the Faculty of Science at its meeting of October 19th, 1970. The course proposals are:

1. For an individual study semester in Biological Sciences
2. For the addition of two new course numbers to the course Periphysical Topics so that this may be given under three separate sub headings.

BLF/ma

encl.

cc: Dr. G. Geen
Dr. H. Haering

FACULTY OF SCIENCE MEETING OF OCTOBER 19, 1970

BIOLOGICAL SCIENCES INDIVIDUAL STUDY SEMESTER

This proposal for an Individual Study Semester was approved by the Undergraduate Curriculum Committee at its meeting of October 13th. The design of the program is very similar to the individual study semester proposals in the Faculty of Education. There are three separate courses; one on research design, one on research technique and one on research reporting.

The Undergraduate Curriculum Committee believes that the program is essentially an experimental one, and that the proposal could be made to Senate that it be authorized for one year only as an experimental course and its continuance be subjected to review on the basis of experience.

B. L. Funt

SIMON FRASER UNIVERSITY

U-70-26

MEMORANDUM

To.....Dean of Science.....

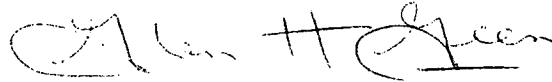
From.....Dr. G. H. Geen.....

.....Biological Sciences.....

Subject.....Individual Study Semester.....

Date.....September 14, 1970.....

Attached is New Course Proposal pro forma for an Individual Study Semester course to be offered by this Department.



Glen H. Geen
Acting Head

GHG:kmb
Attachment

SIMON FRASER UNIVERSITYFACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: Bio-Science

Course Number: Title:

Sub-title or Description:

Research Design	490-5
Research Technique	491-5
Research Reporting	492-5

Credit Hours: 5 per course

Vector Description:

Pre-requisite(s):

See attached, Item II

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 6

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

All Semesters

When course will first be offered: Tentatively by 71-2.

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?

See attached, Item I.

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

Individual research under guidance of faculty sponsor who chairs a 3 man supervisory committee. See attached, Items I, III, IV & V.

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

One of the objectives of the Biology undergraduate program is to provide students with a high degree of flexibility in their choice of program and educational experience. This course will provide an option of interest to a considerable number of students.

D. How does this course affect degree requirements?

See attached, Item V. f.

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

Description as in Item I of attached paper should be included in calendar.

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

None.

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

Estimated at 25 students per semester on the basis of our discussion with Biology students.

H. Other reasons for introducing the course.

Will allow flexibility of study and experience for able students.

IV

BUDGETARY AND SPACE FACTORS

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

All, on a voluntary basis. See attached, Items V, b, c.

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

No special equipment requirements. Space will, of necessity, be provided in the supervisor's research laboratory.

C. Any other budgetary implications of mounting this course:

The nature of the student project will govern the amount of transportation and materials and supplies they would require. An average cost per student should not exceed \$250.00 - say \$2500 per year.

APPROVAL - Faculty Curriculum Committee: [Signature] 12/15/79

Faculty: [Signature]

Senate:

Department of Biological Sciences

INDIVIDUAL STUDY SEMESTER

Policy and Procedures

August, 1970

I Description

The ISS consists of three courses as listed below with their calendar description.

- 4xx-5 Research Design
- 4xx-5 Research Technique
- 4xx-5 Research Reporting

The above three courses must be pursued as components of an Individual Study Semester. They must be taken concurrently under the guidance of a sponsoring professor who will chair a three member supervisory committee. Students wishing to take Biological Sciences 4xx, 4xx and 4xx must apply to the Department prior to the end of the first month of the semester preceding the semester in which they will be taken.

II Eligibility

To be eligible for the Individual Study Semester (ISS) students must normally meet the following basic requirements.

- a. Completion of all first and second level Biological Science courses, plus Biology 301 (Biochemistry), or their equivalent.
- b. Completion of all Physics, Chemistry and Mathematics prerequisites.
- c. At the time of application, have a minimum cumulative GPA of 2.75, and a minimum cumulative GPA in Biological Sciences of 3.00.

III Application

Eligible students should apply for the ISS as follows.

- a. At the beginning of the semester before that in which they plan to take the ISS they should write an ISS PROPOSAL. The ISS Proposal, which will be submitted to the Department Undergraduate Curriculum Committee should include the following:
 - a description of the project,
 - an outline of some of the main literature in the area,
 - a statement from the student, describing his reasons for wishing to undertake the ISS,
 - the projected equipment needs of the project.

- b. Applicants should then meet with prospective faculty sponsors and discuss their proposals. If the faculty member agrees to act as an ISS sponsor for the student, he will countersign the final proposal, and forward it to the Departmental Undergraduate Curriculum Committee (DUCC) together with a budget estimate and an indication of the consent of two individuals who will serve on the Supervisory Committee, at least two months before the end of the semester of application.
- c. Students who are interested in an ISS, but who do not know which faculty are potential sponsors, may ask the DUCC to suggest a possible sponsor whom the student may then approach for discussion.
- d. A student who is unable to obtain faculty sponsorship for his proposal may not undertake the ISS.

IV Acceptance

The DUCC will meet to screen all final proposals bearing the signatures of faculty sponsors. The DUCC will make recommendations to the Department Chairman on the permission for a student to undertake an ISS. These decisions will be based on:

- fulfillment of the eligibility requirements
- submission of a satisfactory ISS proposal
- faculty load during the semester
- departmental space requirements
- financial requirements of the proposals.

In cases where a single faculty member is asked to sponsor several ISS candidates, the sponsor may be asked by the DUCC to assign a ranking to the proposals which he has considered.

The Department Chairman will notify the successful applicants. All applicants will be informed of the decision one month before the start of their ISS semester.

V Administration

- a. ISS will be funded by the department. The Department will identify a specific amount of money from the annual budget of the department for the support of ISS in each of the three semesters.
- b. ISS sponsorship will not carry teaching credit, and will be considered a voluntary activity of the departmental members.
- c. Faculty members may sponsor ISS students during their research semesters if they wish to do so. It is understood that such sponsorship does not alter their teaching/research time accumulation.

- d. The maximum number of ISS students to be sponsored by an individual faculty member in a given semester is three.
- e. At the time of submission of the ISS proposal to the DUCC the sponsor will indicate the names of two other qualified individuals who have agreed to assist him in the supervision and evaluation of the ISS student. These three individuals will be known as the Supervisory Committee.
- f. A Biology major student has 25 hours of unassigned time for biology electives or outside electives with the consent of the department. The ISS will form part of this component of a student's credit. It is further noted that the ISS will not impinge upon the Arts requirements, or the basic Biology requirements.
- g. The student undertaking the ISS will be required to present evidence of his activities during the ISS to the Supervisory Committee. Such submission must be made two weeks prior to the conclusion of the examination period in that semester.