

SIMON FRASER UNIVERSITY

S. 77-83

MEMORANDUM

To SENATE

From SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject NEW COURSES: BICH 492-10 AND BICH 493-15

Date JUNE 16, 1977

MOTION: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.77-83, the new courses:

- BICH 492-10 - Individual Study Semester (Option A)
BICH 493-15 - Individual Study Semester (Option B)."

(SCUS approved waiver of the time requirement in order that these courses may be first offered in Spring 78-1. SCUS requested a list of illustrative topics which is attached for information.)

Handwritten signature: KR Bich

SIMON FRASER UNIVERSITY

SCUS 77-27

MEMORANDUM

To..... H. Evans  
..... Secretary to SCUS  
Subject..... BICH 492-10 and BICH 493-15

From..... J.M. Webster  
..... Dean of Science  
Date..... May 30, 1977

The attached new course proposals for BICH 492-10, "Individual Study Semester (Option A)" and BICH 493-15, "Individual Study Semester (Option B)" were approved by the Faculty of Science at its meeting of May 19, 1977 and are herewith forwarded to the Senate Committee on Undergraduate Studies for further consideration.

  
J.M. Webster

JMW/pel  
Encl.

RECEIVED

MAY 31 1977

Waiver Spring 78-1

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Programme.: Biochemistry

Abbreviation Code: BICH Course Number: 492 Credit Hours: 10 Vector: \_\_\_\_\_

Title of Course: Individual Study Semester (Option A)

Calendar Description of Course:

This course is available to students who have already taken BICH 491-5 or CHEM 481-5 or BISC 498-3 but would like additional research experience. It is also available to students who have not yet taken an undergraduate research course but wish to break an Individual Study project into two semesters. In this case, the student may take BICH 491-5 and BICH 492-10 in either order in two succeeding semesters. If taken in the first semester, BICH 491-5 could thus be used for laboratory preparation; if taken following BICH 492-10, it could be used to complete the research phase and preparation of a research report.

~~Nature of course~~  
The nature of the project will in most cases determine the sequence, which must, Prerequisites (or special instructions):

however, be decided in advance of registration. No more than 15 hours of research courses can be counted.

Permission of the Biochemistry Committee (see attached criteria).

What course (courses), if any, is being dropped from the calendar if this course is approved:  
None

2. Scheduling

How frequently will the course be offered? Every semester.

Semester in which the course will first be offered? Spring 78-1

Which of your present faculty would be available to make the proposed offering possible? Any member of the Biochemistry Committee

3. Objectives of the Course - The Individual Study Semester is envisioned to facilitate in depth undergraduate research opportunities for suitably qualified students. This experience would be most useful to students contemplating graduate studies. Since a considerable proportion of biochemistry graduands have pursued advanced studies at the Masters and Doctoral level, availability of the BICH I.S.S. options under the aegis of the Biochemistry Curriculum Committee would be desirable.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty  
Staff  
Library  
Audio Visual  
Space  
Equipment

} None

5. Approval

Date: March 18, 1977

[Signature] 39 5 77 74 June 77  
PROGRAMME Chairman Dean Chairman, SCUS

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Programme : Biochemistry

Abbreviation Code: BICH Course Number: 493 Credit Hours: 15 Vector:     

Title of Course: Individual Study Semester (Option B)

Calendar Description of Course:

This course is available to students who have not yet taken an undergraduate research course and wish to complete an Individual Study project in one semester.

Nature of Course

Prerequisites (or special instructions):

Permission of the Biochemistry Committee (see attached criteria).

What course (courses), if any, is being dropped from the calendar if this course is approved: None

2. Scheduling

How frequently will the course be offered? Every semester.

Semester in which the course will first be offered? Spring 78-1

Which of your present faculty would be available to make the proposed offering possible? Any member of the Biochemistry Committee

3. Objectives of the Course

(See proposal for BICH 492-10)

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty

Staff

Library

Audio Visual

Space

Equipment

None

5. Approval

Date: \_\_\_\_\_

[Signature]  
Programme Chairman

385777  
[Signature]  
Dean

14 June 77  
[Signature]  
Chairman, SCUS

Criteria for Approval of an Individual Study Semester by the Biochemistry Committee (Options A or B):

*BICH 492-10 or BICH 493-15*

1. Students wishing to pursue an Individual Study Semester must obtain an agreement in writing from a faculty member who will serve as research supervisor and submit a detailed research proposal to the Biochemistry Committee at least 4 weeks prior to the start of the proposed Individual Study Semester.
2. Students must have completed all of the required courses in the Core Program in Biochemistry with 300 level numbers or less by the time of the proposed start of the project.
3. Students must have obtained a GPA of 3.00 in all courses in the Core Program in Biochemistry completed at the time of application.
4. Students cannot receive credit for a total of more than 15 semester hours in research courses. Students may not take BICH 492-10 or 493-15 for credit if they have already completed either CHEM 483-15, G.S. 499-15, or BISC 490-5, 491-5, and 492-5.

Upon approval of the student and the project, the Biochemistry Committee (or the research coordinator) will assign a supervisory committee consisting of the research supervisor and two other faculty members. At the end of the Individual Study Semester, the student must submit a comprehensive research report to the supervisory committee, which may also require the student to present an oral defense. The supervisory committee will assign a final grade.

# SIMON FRASER UNIVERSITY

## MEMORANDUM

To.....	H.M. Evans	From.....	J.M. Webster
	Secretary of Senate		Dean of Science
Subject.....	Independent Study Semesters	Date.....	June 21, 1977

Please find below some examples of Independent Study Semester Project titles that have been or are being done in the Faculty of Science.

76-2

D. Filipenko, Biosciences

Studies Directed Toward the Bio-synthesis of Isotopically Labeled Cholesterol

S. Zimmer, Biosciences

The effect of immunological B chemical sympathectomy on the nerve growth factor, content of fat atrium, vas deferens and salivary glands.

76-3

M. Struezl, Biosciences

Isolation of Transfer RNA from the nematode Caenorhabditis elegans

77-2

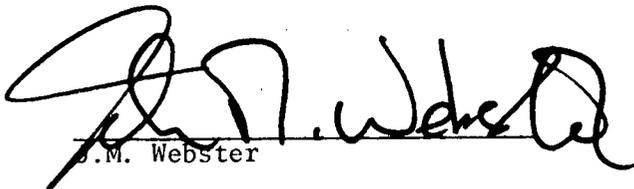
B. Palmer, Chemistry

Fast chemical separation of nuclides far from stability using a thermo-chromographic cell and a gas jet recoil system

B. Louie, Chemistry

Synthesis of metal thlocarbonyls

JMW/pel

  
J.M. Webster