

SIMON FRASER UNIVERSITY

S.75-132

MEMORANDUM

To SENATE

From SENATE COMMITTEE ON UNDERGRADUATE
STUDIES

Subject NEW COURSE PROPOSALS - MATHEMATICS

Date SEPTEMBER 10, 1975

MOTION: "That Senate approve, and recommend approval
to the Board of Governors, the new course
proposals for
MATH 497-3 - Directed Studies
MATH 498-3 - Selected Topics,
as set forth in S.75-132."

If the above motion is approved,

MOTION: "That Senate waive the normal two semester
time lag requirement in order that MATH 497-3
and MATH 498-3 may be first offered in the
Spring semester 76-1."

SIMON FRASER UNIVERSITY

S.75-132

MEMORANDUM

To SENATE

From SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject

Date 10th September, 1975

At its meeting of 26th August, the Senate Committee on Undergraduate Studies considered the attached proposals for the following courses -

MATH 497-3: Directed Studies
MATH 498-3: Selected Topics

These courses are now forwarded to Senate for its consideration, with the Committee's recommendation that they be approved. Since the Mathematics Department may wish to offer either or both of them in the Spring semester, 1976, it is further recommended that the normal two semester time lag requirement be waived in these cases.


I. Mugridge

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att.

SIMON FRASER UNIVERSITY

SCUS 75-35

MEMORANDUM

To H. Evans

From B.P. Beirne, Acting Dean

Senate Committee on Undergraduate Studies

Faculty of Science

Subject NEW COURSE PROPOSALS - Mathematics

Date August 20, 1975

The Executive Committee of the Faculty of Science has approved the following new course proposals, and forwards them to SCUS for consideration:

MATH 497-3

Directed Studies

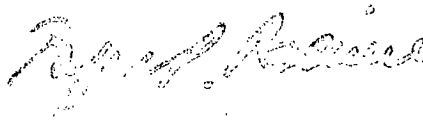
MATH 498-3

Selected Topics

The supporting documentation for these proposals is attached.

/pel

Encl.



U-75-9

SIMON FRASER UNIVERSITY

MEMORANDUM

To Dr. Brian Pate, Chairman
Faculty of Science
Undergraduate Curriculum Committee

From D. Ryeburn, Chairman
Undergraduate Studies Committee
Mathematics Department

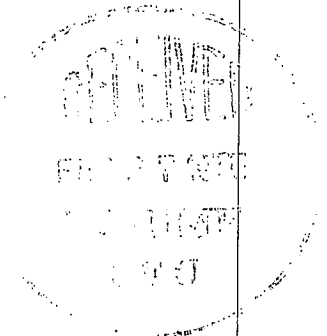
Subject PROPOSED DIRECTED STUDIES AND
SELECTED TOPICS COURSES IN MATHEMATICS

Date February 24, 1975

Attached you will find the appropriate SCUS forms for two new Mathematics courses, Directed Studies (497-3) and Selected Topics (498-3). We already have courses with these titles, but in each case such courses at the 400 division are four-credit ones. (We also have two-credit and three-credit Selected Topics courses at the 200 division.) Several times situations have arisen where students wished to take Directed Study courses, or several students wished to take a Selected Topics course, in which it would have made best academic sense for us to give a three-credit course, but we have been unable to do so. These courses will allow us to satisfy the needs of our students, our faculty, and our discipline, without concern for an artificial calendar requirement.

For each course, topics previously covered are named. This is done to indicate some of the topics which might be covered in the future. We certainly don't want to suggest that we will only choose from these lists.

David Ryeburn
David Ryeburn



SENATE COMMITTEE ON UNDERGRADUATE STUDIESCOURSE PROPOSAL FORM1. Calendar InformationDepartment: MATHEMATICSAbbreviation Code: _____ Course Number: 497 Credit Hours: 3 Vector: Will varyTitle of Course: Directed Studies

Calendar Description of Course:

Independent reading or research in topics selected in consultation with the supervising instructor.

Nature of Course- This will vary depending on topics covered (see enclosed list for example of previous topics)

Prerequisites (or special instructions):

Will vary depending on topics

What course (courses), if any, is being dropped from the calendar if this course is approved:

None

2. SchedulingHow frequently will the course be offered? IrregularlySemester in which the course will first be offered? Spring 76-1Which of your present faculty would be available to make the proposed offering possible: All Faculty Members3. Objectives of the Course

To provide an opportunity for the student to do independent work under the supervision of a faculty member. The existing Directed Studies courses are of 4 units credit; this proposed course would allow students to take a 3 credit Directed Studies course.

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. ApprovalDate: Feb. 24, 1975 21 May 75
A. H. Lockman
 Department Chairman

Robert B. Davis
 Dean

 Chairman, SCUS

DIRECTED STUDIES

Listed below are examples of Directed Studies Courses which have been offered:

Math 498-4 Foundations of Mathematics
Math 492-4 Introduction to Complex Variables
Math 493-4 Lebesgue Theory
Math 492-4 Transversal Theory
Math 492-4 Multivariate Analysis
Math 493-4 Function Spaces
Math 492-4 Applied Graph Theory
Math 492-4 Mathematical Theory of Elasticity

SENATE COMMITTEE ON UNDERGRADUATE STUDIESCOURSE PROPOSAL FORMCalendar InformationDepartment: MATHEMATICSAbbreviation Code: _____ Course Number: 498 Credit Hours: 3 Vector: 3-1-0Title of Course: Selected TopicsCalendar Description of Course:

The topics included in this course will vary from semester to semester depending on faculty availability and student interest.

Nature of Course - This will vary depending on topics covered (see enclosed list for

Prerequisites (or special instructions): examples of previous topics offered)

Will vary depending on topics

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? Irregularly

Semester in which the course will first be offered? Spring 76-1

Which of your present faculty would be available to make the proposed offering possible: All Faculty Members

3. Objectives of the Course

To allow the Mathematics Department to offer on an irregular basis worthwhile Mathematics topics currently of interest to students and faculty; such courses may later become part of the regular curriculum. Existing Selected Topics courses are of 2 or 3 units credit at the 200 division, or of 4 units credit at the 400 division. This proposed course would allow the Mathematics Dept. to offer a 3 credit course at the 400 division.

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. ApprovalDate: Feb. 24, 1975 21 Aug 75RA Lachon
Department ChairmanPayton B. Bunn
Dean

Chairman, SCUS

SELECTED TOPICS

Listed below are examples of Selected Topics which have been previously offered:

- MATH 291-2 Celestial Navigation
- MATH 291-2 Foundations of Geometry
- MATH 291-2 Mathematics and Art
- MATH 291-2 Mathematics for Business and Finance
- MATH 292-2 Foundations of Geometry
- MATH 292-2 Intuitive Problems in Mathematics
- MATH 292-2 Introduction to Applied Mathematics
- MATH 495-4 Experimental Design
- MATH 495-4 Modal Logic
- MATH 495-4 Decision Theory
- MATH 495-4 Methods of Optimization
- MATH 496-4 Set Theory and Foundations of Mathematics
- MATH 496-4 History of Mathematics
- MATH 496-4 Differential Geometry
- MATH 496-4 History of the Infinitely Large and the Infinitely Small