

SIMON FRASER UNIVERSITY

S.72-146

MEMORANDUM

To SENATE

From SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject FACULTY OF SCIENCE - NEW COURSE PROPOSALS - MATHEMATICS 291-2, 292-3

Date NOVEMBER 15, 1972

MOTION: "That Senate approve, as set forth in S.72-146 new undergraduate course proposals in Mathematics, as follows:

New Course and Title

Mathematics 291-2 - Selected Topics

Mathematics 292-3 - Selected Topics

with each of the courses to be counted not more than once toward completion of degree requirements."

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STUDIES

Subject FACULTY OF SCIENCE - NEW COURSE
PROPOSALS - MATHEMATICS 291-2, 292-3

Date NOVEMBER 15, 1972

On recommendation of the Faculty of Science, the Senate Committee on Undergraduate Studies has approved new undergraduate course proposals in Mathematics, as set forth in SCUS 72-33 amended, as follows:

New Course and Title

Mathematics 291-2 - Selected Topics
Mathematics 292-3 - Selected Topics

Although original submissions indicated desire to offer each of these courses commencing in January 1973, the Committee was not satisfied that this was necessary or desirable, and recommended that they become effective in or after Fall 73-3 in keeping with normal regulations.

Technical difficulties in variable course titles were noted, with understanding that until current technical developments are completed, titles on transcripts would be "Selected Topics."

SIMON FRASER UNIVERSITY

MEMORANDUM

SCUS 72-33
as amended by
SCUS Nov 14, 1972

To Mr. H. Evans
Secretary to SCUS and Senate
Subject New Course Proposals--Mathematics

From S. Aronoff *SA*
Dean of Science
Date October 18, 1972

Attached are proposals for two new courses in Mathematics (Selected Topics in Mathematics, 291-2 & 292-3) for the consideration of the Senate Committee on Undergraduate Studies and Senate. Both courses were approved by the Faculty of Science at its meeting of October 17, 1972. It is also recommended that students taking these two courses have the specific title of the course appearing on their transcripts instead of the general title, "Special Topics".

Selected.

Note per ...

Also

Note date offering problem

SA:la

c.c. Department of Mathematics

U-72-11

SIMON FRASER UNIVERSITY

MEMORANDUM

| | |
|--|--|
| To..... Dr. J. Barlow Acting Dean of Science Subject..... NEW COURSE PROPOSALS | From..... Dr. R.W. Lardner, Chairman Mathematics Department Date..... August 9, 1972 |
|--|--|

I have attached new course proposal forms for two 'Selected Topics in Mathematics' courses at the 200 level for the consideration of the Faculty of Science Undergraduate Studies Committee. On the forms we have indicated that special permission is requested so that these courses can be offered as a part of the Continuing Education program in the Spring Semester 1973. The reason for this is that we are considering suggestions for night school courses for that semester and it would seem appropriate to use either of the requested selected topics course numbers for some of the proposals we are considering.

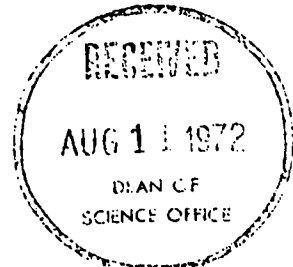
R.W. Lardner

 R.W. Lardner

The following motion was passed by the Faculty of Science Undergraduate Curriculum Committee at its meeting of September 5, 1972:

"That the Committee accept course proposals Math 291-2 and 292-3 and forward them to Faculty for approval, and that students taking these two courses have the specific title of the course appearing on their transcripts instead of the general title, 'Special Topics'."

MOTION CARRIED
 UNANIMOUSLY



Sent from [unclear]
 DEAN OF SCIENCE

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

The availability of selected topics course numbers at this level will enable the Department to enrich its lower level course offerings without the necessity of creating a series of course numbers that might only be used for one semester. In addition, this course will provide students in other disciplines, as well as those in mathematics, with an opportunity to study areas of the mathematical sciences which are not included in a standard 'core program'.

D. How does this course affect degree requirements?

This course does not affect degree requirements.

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

New listing.

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?

Student demand will vary according to the specific topics offered under this course number.

H. Other reasons for introducing the course.

IV BUDGETARY AND SPACE FACTORS

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

Any of the Faculty Members in the Mathematics Department.

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

NONE

C. Any other budgetary implications of mounting this course:

NONE

APPROVAL - Faculty Undergraduate Curriculum Committee:

W. Garland 5/9/72

Faculty:

S. Johnson 4/27/72

Senate:

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: MATHEMATICS

Course Number: 292-3

Title: SELECTED TOPICS IN
MATHEMATICS

Sub-title or Description:

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

Credit Hours: 3

Vector Description: 3-1-0

Pre-requisite(s): The student is advised to consult with the Department regarding the prerequisites of specific offerings.

II ENROLMENT AND SCHEDULING

Enrollment will vary with the specific course offerings.

Estimated Enrolment: A reasonable estimate would be 15 - 30 students per offering.

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

The course will be offered during the regular semesters when there is sufficient student interest, and available faculty. The course will be offered as a part of the Continuing Education Program when specific proposals are approved by the Director of that program.

When course will first be offered:

~~With the special permission of Senate, as a part of the Continuing Education Program,~~

III JUSTIFICATION

~~Spring 1975. P-1173-3~~

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?

The material covered in this selected topics course will not duplicate any of the regular lower level mathematics course offerings. There is no course of this type at this level either in this Department or in other university departments.

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

Any mathematical topic considered appropriate for this level which is not already covered in any other lower level mathematics course.

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

The availability of selected topics course numbers at this level will enable the Department to enrich its lower level course offerings without the necessity of creating a series of course number that might only be used for one semester. In addition, this course will provide students in other disciplines, as well as those in mathematics, with an opportunity to study areas of the mathematical sciences not included in a standard 'core program'.

D. How does this course effect degree requirements?

This course does not affect degree requirements.

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

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None.

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IV BUDGETARY AND SPACE FACTORS

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

Any of the Faculty Members in the Mathematics Department.

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

NONE

C. Any other budgetary implications of mounting this course:

NONE

Approved For Sec II G-CC 5/9/72 J. Barlow
" for Faculty of Science 10/1/72 S. Barlow

SIMON FRASER UNIVERSITY

MEMORANDUM

To Dr. I. Mugridge, Chairman

From Dr. R.W. Lardner, Chairman

Senate Committee on Undergraduate Studies

Mathematics Department

Subject MATHEMATICS 291-2 and 292-3

Date November 21, 1972

As requested by the Senate Committee on Undergraduate Studies I am providing an additional paper relating to the new course proposals Mathematics 291-2 and 292-3, outlining the kinds of courses which might be offered under these numbers. The list of possible topics is as follows:

1. Elementary numerical methods.
2. Linear programming.
3. Introductory number theory.
4. Combinatorial computing.
5. Computer assisted instruction.
6. Introduction to logical design and switching theory.
7. Non-Euclidean geometry.
8. Mathematics and western culture.
9. Mathematics for secondary school teachers.
10. Finite mathematics.
11. Combinatorics and game theory.



R.W. Lardner