

SIMON FRASER UNIVERSITY

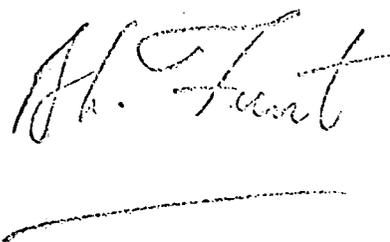
MEMORANDUM

E65-51
S. 301

Mr. H. Evans, Secretary	From B. L. Funt
Senate Committee on Graduate Studies	Dean of Science
Subject: Mathematics Graduate Course Changes	Date: October 22, 1969

At its meeting of October 20th the Faculty of Science approved the deletion of Math. 805-4 and the addition of Math 808-4 in the graduate program. These changes had previously received the approval of the Faculty of Science Graduate Studies Committee.

I would appreciate it if you would ensure that these changes are considered by the Senate Graduate Studies Committee at the earliest opportunity so that the material may be brought to Senate in time for inclusion in the 1970-71 Calendar.



BLF:mb

c.c. Dr. A. H. Lachlan
Acting Head, Mathematics

Miss M. McGinn

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

FACULTY OF SCIENCE

3. ii) Report of the Graduate Studies Committee

b) Deletion of Math 805-4 and Addition of Math 808-4

The Mathematics 808-4 course was approved by the Faculty of Science Graduate Studies Committee at its meeting of September 17, 1969

It is recommended that the Faculty approve this course and that it be submitted to Senate for approval.

B. L. Funt

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

Proposed New Graduate Course in Mathematics

1. Calendar Information

Mathematics 808-4 Logic III
Prerequisite: Mathematics 806-4

Students who have obtained credit for Mathematics 805-4 may not obtain credit for Mathematics 808-4.

2. Course Description

(At present this will not appear in the calendar since no course descriptions appear for Mathematics graduate courses.)

Introduction to recursion theory, Church's Thesis, Gödel-Rosser incompleteness theorem, undecidability, Kleene's normal form theorem, the enumeration theorem, the recursion theorem. The arithmetical hierarchy, the analytical hierarchy. Degrees of unsolvability. Basis theorems. Additional topics if time permits.

Text: Chapters 6,7,8 of Mathematical Logic, J. R. Shoenfield, Addison Wesley 1967. (The earlier part of this book is covered in Mathematics 806-4.)

3. Enrollment and Scheduling

The course will be offered when student demand warrants it and Departmental resources permit. It is proposed to offer it for the first time in 70-1 if the necessary approval can be obtained in time.

4. Justification

(i) Relation to Departmental Program

This course, to be substituted for Mathematics 805-4 Logic I, will enhance our basic offerings in mathematical logic at the graduate level. (See the covering memorandum). The department has attracted a steady stream of graduate students whose main interest is logic.

(ii) Courses Replaced

Mathematics 805-4, Logic I

(iii) Course Overlap

There is substantial overlap with Mathematics 805-4 which is to be discontinued, but negligible overlap with other courses offered in the University.

3. Budgetary and Space Factors

Faculty: Dr. H. Gerber is scheduled.
Special Space Requirements: None
Special Budgetary Requirements: None

A. H. Lasham