SIMON FRASER UNIVERSITY

MBMORANDUM

To: Senate

From: Senate Committee on

Undergraduate Studies

Subject: Department of Mathematics

Date: October 15, 1986

and Statistics Curriculum Changes

Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of October 14, 1986 gives rise to the following motion:

MOTION:

"That Senate approve and recommend approval to the Board of Governors, as set forth in S.86-74, the proposed recommendation for experience in a Programming Language."

FOR INFORMATION:

Acting under delegated authority at its meeting of October 14, 1986 the Senate Committee on Undergraduate Studies approved

Course revisions including:

MATH 243-3 Change of prerequisites

MATH 443-3 Change of prerequisites

SIMON FRASER UNIVERSITY **MEMORANDUM**

To: R. Heath.

Secretary to Senate

From:

P. Dobud

Administrative Assistant

to the Dean of Science

Subject: Calendar Changes,

MATHEMATICS Program

Date:

October 2,1986

This is to inform you that the Faculty of Science, in its meeting held on Monday September 29,1986 has approved the following calendar changes for the MATHEMATICS program. I would appreciate it very much if you would place these motions in the agenda of the next SCUS meeting for consideration and approval.

Programming Language requirement.

"That the following paragraph be added after Minimum grade requirement, page 189 of the 1986-87 calendar:

Some experience with a high level programming language is recommended by the beginning of the second year."

Rationale: (i) The following MATH/MACM courses require or recommend some knowledge of computing: MATH/MACM 216, 243, 308, 309, 316, 343, 360, 401, 402, 408, 416.

- (ii) Co-op students in Mathematics frequently need familiarity with programming in their work
- (iii) Out of 7 Universities investigated, 4 require their Mathematics Majors to take a Computing Course.

b) Change in prerequisites for: MATH 243 and MATH 443.

"That SCUS approves the following changes in preregulaites

MATH 243-3 : Discrete Mathematics

FROM:

Prerequisites: Any 100 division Mathematics or Computing Science course

(except MATH 100, 190 or 191).

TO:

Prerequisites: MATH 152 or 155; or MATH 158 with a grade of A or B.

Rationale: Over the years, MATH 243 was upgraded. The material is more difficult now than it used to be. For instance partial fractions, which are part of MATH 152 and 155, are needed now.

ii)

MATH 443-3: Combinatorial Theory

FROM:

Prerequisites: MATH 243

TO:

Prerequisites: MATH 232 and 243 ."

Rationale: Over the years MATH 443 was upgraded. Vector space theory of MATH 232 is now used in Design Theory and Coding Theory of MATH 443.

cc: Dr. A. R. Freedman, Chairman Department of Mathematics and Statistics

Attach course outline).

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE PROPOSAL FORM

Calendar Information	H Atra	pepartment:	Math.&Stats.
	Course Number: 243	Credit Hours:	3 Vector: 3-1
	iscrete Mathematics		•
Calendar Description of	f Course: See Calenda	r	
	•		
Nature of Course	/b		
Prerequisites (or speci	al instructions).		
Math 152 or 155; or		·	•
What course (courses), approved:	if any, is being dropped	d from the calen	dar if this course is
	· ·		
. <u>Scheduling</u>			
How frequently will the			
Semester in which the co			
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SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE PROPOSAL FORM

.	Calendar Information		Department: Math. & Stats.		
	Abbreviation Code: MATH Course Nu	mber:443		Vector: 4-0-0	
·	Title of Course: Combinatorial	Theory			
	Calendar Description of Course:				
	Introduction to combinatori	al analysis.	•		
	Nature of Course				
	Prerequisites (or special instruct: Math 232 and Math 243.	ions):			
	What course (courses), if any, is larger approved:	being dropped	from the calendar	if this course is	
2.	Scheduling		·		
	How frequently will the course be o	offered?			
	Semester in which the course will f	irst be offer	ed?		
	Which of your present faculty would possible:	l be available	to make the propo	osed offering	
	Objectives of the Course				
	•				
				•	
4.	Budgetary and Space Requirements (fo	or information	only)		
	What additional resources will be re	equired in the	following areas:		
	Faculty				
	Staff				
	Library				
	Audio Visual.				
	Space	•			
	Equipment				
5.	Approval				
i	Date: September 15,1986.	October 1	, 1986		
	MR Frid	916-11-2			
	Department Chairman	Dean	1	Chairman, SCUS	

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).