

SIMON FRASER UNIVERSITY

S.75-90

MEMORANDUM

To..... SENATE

From..... SENATE COMMITTEE ON UNDERGRADUATE
STUDIES

Subject..... B.A. PROGRAM IN MATHEMATICS

Date..... MAY 15, 1975

MOTION:

"That Senate approve, and recommend approval to the Board of Governors, as set forth in S.75-90, the proposed Bachelor of Arts program in Mathematics, including

- i) The requirements for a major in Mathematics
- ii) The requirements for honors in Mathematics."

SIMON FRASER UNIVERSITY

S.75-90

MEMORANDUM

To SENATE

From I. MUGRIDGE, CHAIRMAN

SENATE COMMITTEE ON UNDERGRADUATE
STUDIES

Subject PROPOSED B.A. PROGRAM IN MATHEMATICS

Date MAY 16, 1975

At its meeting of April 22, 1975, following recommendation by the Faculty of Arts, the Senate Committee on Undergraduate Studies considered the proposed program for a B.A. with a major or honors in Mathematics.

The Committee fully supported the program and recommends its approval by Senate.

I. Mugridge *esc*

SIMON FRASER UNIVERSITY

SCUS 75-22

MEMORANDUM

Dr. Ian Mugridge Chairman, SCUS	From: Sheila Roberts, Secretary Faculty of Arts Curriculum Committee
Subject: B.A. Program Mathematics	Date: April 10, 1975

Attached is a proposal for a degree program from the Department of Mathematics for a B.A. in Mathematics. This proposal was passed by the Academic Planning Committee on January 8, 1975. Also attached is a copy of the necessary revisions required for the calendar entry for the Faculty of Arts.

Will you please put this on the agenda for the next meeting of SCUS.

Thank you.

Sheila Roberts

SR:e
 CC Mr. H. Evans, Registrar
 attachments

SIMON FRASER UNIVERSITY

MEMORANDUM

Dr. W. Smith, Dean	From	David Ryeburn, Chairman
Faculty of Arts		Undergraduate Studies Committee
		Mathematics Department
Subject	Date	November 7, 1974
B.A. IN MATHEMATICS		

At the October 31, 1974 meeting of the Faculty of Science a resolution was passed supporting the Mathematics Department in its wish to offer a B.A. program in Mathematics, and urging the Academic Planning Committee to reconsider its decision of April 4, 1974 that such a program be offered, if anywhere, in the Faculty of Science, and to approve the proposal to offer the program under the aegis of the Faculty of Arts. Accordingly we are resubmitting our proposal, first sent to you November 29, 1973. There have been a few changes, some editorial and some of substance. Most of the editorial changes correspond to other proposed editorial changes in the calendar submissions of the Mathematics Department or of the Faculty of Arts for the year 1975-1976. Other changes are occasioned by the introduction of new mathematics courses, of which some have already been approved by Senate and others are being submitted to Senate for approval. The program is however essentially the same one described by Dr. Gerber in his November 29, 1973 memorandum, and the reasons he gave supporting it still apply.

I will be glad to answer any questions the Faculty of Arts Undergraduate Curriculum Committee may have about the program. We will appreciate whatever support we can get in helping the Academic Planning Committee to change its mind.

David Ryeburn

 D. Ryeburn

cc: Dr. S. Aronoff (Dean, Faculty of Science)
 Dr. I. Mugridge (Assistant Vice President,
 Academic)

DR/dr

Faculty of Arts
 Nov 8 1974
 Office of the Dean

no comment to Senate
 SR - continue to support this proposal - are there details of not, please advise me as to how my office can appropriately support the motion -
 WTS

PROPOSED REQUIREMENTS FOR A B.A.
with a Major in Mathematics
or Honors in Mathematics

Lower levels (majors and honors students):

At least 60 semester hours of credit which must include

- (1) MATH 151-3, 152-3, 232-3, and 253-4.
- (2) At least three of the courses listed in the following groups.
 - (a) MATH 141-2, 142-2, 161-3, 180-3, 241-2.
 - (b) No more than one of MATH 194-3 or 196-3 (or 195-3).
 - (c) No more than one of CMPT 103-3 (or CMPT 102-2 or MATH 106-3).
- (3) At least 12 semester hours in Group A courses - English, History, Modern Languages, or Philosophy.
- (4) At least 12 semester hours in Group B courses - Archaeology, Economics and Commerce, Geography, Political Science, Psychology, or Sociology/Anthropology.
- (5) At least 6 semester hours in Group C courses (Biological Sciences, Chemistry, or Physics), excluding Mathematics.

Students who have been, or who have intended to be, majors or honors students in Biological Sciences and who have completed MATH 154-3 or MATH 155-3 need not take MATH 151-3 or MATH 152-3, respectively. Students who have been, or who have intended to be, majors or honors students in the social sciences and who have completed MATH 150-3 with a grade of A or B need not take MATH 151-3. Students transferring from other institutions, or from faculties other than the Faculty of Arts with 30 or more credits may, upon recommendation of the Academic Advice Centre or the Mathematics Department, apply up to 6 semester hours of credit for courses in Group C excluding Mathematics (Biological Sciences, Chemistry, or Physics) or Group D (Education) in lieu of credit for courses in Group A or Group B; this substitution will not be allowed for students with regular entry directly into the Faculty of Arts.

At least 45 credit hours must be in lower division courses. Note: Any upper division course will not count towards the upper level requirements if taken prior to admission to upper levels.

No more than 16 credit hours may be taken in any one semester without the written consent of the Dean of the Faculty of Arts.

Upper Levels (majors):

At least 60 semester hours of credit which must include

- (1) At least 45 credit hours in upper division courses, of which at least 30 must be in upper division Mathematics courses. Note: PHYS 411-4 may be considered to be a Mathematics course in this case.
- (2) At least 15 credit hours outside the major subject area. (This requirement is automatically fulfilled when a student completes requirements for an approved double major or major/minor program.)
- (3) At least 45 credit hours taken within the Faculty of Arts (which may include courses taken in the Mathematics Department) and used for credit toward the degree. This restriction does not apply in those cases where a student is enrolled in an approved degree program involving two or more faculties such as a double major or major/minor program.

No more than 18 credit hours may be taken in any one semester without the written consent of the Dean of the Faculty of Arts.

All levels (majors):

At least 120 semester hours of credit of which at least 60 hours must be taken within the Faculty of Arts. (Course taken within the Mathematics Department may count toward this requirement.)

Upper Levels (honors students):

At least 72 semester hours of credit which must include

- (1) At least 60 credit hours in upper division courses, of which at least 50 must be in upper division Mathematics courses. Note: PHYS 411-4 may be considered to be a mathematics course in this case.
- (2) MATH 310-3, 312-4, 320-3, 421-5, 422-4, and at least one of 431-4 or 432-4. These courses are counted as part of the 50 hours credit referred to above, provided they have been taken as upper levels courses. It is permissible to take any of these courses as a lower levels course, provided all pre-requisites have been met, but in that case the course is not included as part of the 50 hours of upper levels upper division Mathematics course work.

- (3) At least 15 credit hours outside the major subject area.
(This requirement is automatically fulfilled when a student completes requirements for an approved double major or major/minor program.)
- (4) At least 57 credit hours taken within the Faculty of Arts (which may include courses taken in the Mathematics Department), and used for credit toward the degree. This restriction does not apply in those cases where a student is enrolled in an approved degree program involving two or more faculties such as a double major or major/minor program.

No more than 18 credit hours may be taken in any one semester without the written consent of the Dean of the Faculty of Arts.

All levels (honors students):

At least 132 semester hours of credit of which at least 72 hours must be taken within the Faculty of Arts. (Courses taken within the Mathematics Department may count toward this requirement.)

FACULTY OF ARTS 67

FACULTY OF ARTS

Degrees Offered

B.A.—General Program
 Major Program
 Major/Minor Program
 Double Major Program

B.A.—Honors Program
 M.A.—See Graduate Calendar
 M.B.A.—See Graduate Calendar
 Ph.D.—See Graduate Calendar

Requirements for the B.A. Degree

A Bachelor of Arts Degree may be obtained by successful completion of a General Degree program (of which there are three types) or an Honors Degree program in the Faculty of Arts. Typically each department of the Faculty of Arts offers degree programs in one area. Some departments (Modern Languages, Economics and Commerce, Political Science, Sociology and Anthropology) offer degree programs in more than one field. The specific degree programs offered by each department and the specific requirements for completion are listed under each departmental entry in the Calendar.

A General Degree program in a single field within a department is termed a major; e.g. a student pursuing the General Degree program within the Department of History is said to be majoring in History, or is a History major. Many departments also list requirements for a minor program. The minor program permits the student to pursue studies in two academic disciplines: one, the major, in some depth; the other, the minor, in lesser depth. It is also possible for a student to pursue studies with equal emphases in two academic disciplines. Upon the fulfillment of the major requirements of two major programs, one can obtain a General Degree with a Double Major. (For more details on these programs, see Double Major, Major/Minor sections below.)

The Honors Degree program is an expansion and intensification of the General Degree program. It affords students greater concentration in their specialities in their upper levels. In general, students who plan to seek advanced degrees are advised to pursue an Honors program.

Summary of University Requirements for Undergraduate Degrees

	General	Honors
Minimum Credit Hours for the Degree	120	132
Minimum Graduation Grade Point Average	2.00	3.00
G.P.A. for Honors First Class Designation		3.50

A Bachelor of Arts Degree may be obtained by successful completion of a General Degree program (of which there are three types) or an Honors Degree program in the Faculty of Arts. Typically each department of the Faculty of Arts offers degree programs in one area. Some departments (Modern Languages, Economics and Commerce, Political Science, Sociology and Anthropology) offer degree programs in more than one field. The specific degree programs offered by each department and the specific requirements for completion are listed under each departmental or program entry in the Calendar.

68

(For a complete outline of General University Requirements please refer to pages 55 and 56 of the Calendar).

Faculty of Arts Requirements for the B.A. Degree

The Faculty of Arts requirements fall into three categories: 1. The distribution of the total credit hours among the Faculties of the University as well as the various departments within the Faculty of Arts (see Group Requirements). 2. Requirements for acceptance into and continuance in degree programs. 3. The establishment of minimum academic standards via the Grade Point Average (GPA) for successful completion of the various degree programs.

1. Distribution of Total Credit Hours

All Levels General Degree Program	A minimum of 120 credit hours of which at least 60 hours must be taken within the Faculty of Arts.
All Levels Honors Degree Program	A minimum of at least 132 credit hours of which at least 72 hours must be taken within the Faculty.

Note: Lower division courses include all credit courses numbered between 001 and 299. Upper division courses include all undergraduate credit courses numbered 300 and above.

Lower level courses are those courses completed within the first 60 hours of credit. Upper level courses are those courses completed with-in credits accumulated after completion of the first 60 hours.

Lower Levels	<p>General and Honors Program</p> <p>At least 60 credit hours of which:</p> <ol style="list-style-type: none"> At least 24 must satisfy the appropriate Faculty of Arts Group A & B requirements (see Group Requirements on page 70). The lower division requirements for at least one Arts major degree program should be completed. No more than 15 may be in upper division courses. <p>NOTE: None of these 15 hours will count toward the upper level requirements.</p> <ol style="list-style-type: none"> No more than 16 may be taken in any one semester without the written consent of the Dean.
--------------	--

Note: Students who wish to obtain a B.A. degree with a major or honors in Mathematics may count Mathematics as an Arts subject. With this exception all regulations of the Faculty of Arts will apply to them. Students who wish to undertake this program are strongly urged to see advice from the Department of Mathematics.

18 Honors Semester
in which further reading and research in a specialized area of study will be
Conducted in close co-operation with faculty, this 18-hour "course" will
with the student writing an Honors Essay, a work which shall reflect an ability
and synthesize the events and literature of the specific subject being

LOCATION: ROOM 5119 A.Q.

TELEPHONE: 291-3331

The Department of Mathematics of the Faculty of Science offers a program of study that leads to the degree of B.A. For information about the degree of Bachelor of Science see Faculty of Science. Students should also consult Faculty of Science for information on Faculty members and course prerequisites and for all course descriptions.

REQUIREMENTS FOR A B.A. IN MATHEMATICS

Lower levels (major and honors students):

At least 60 semester hours of credit which must include

- (1) MATH 151-3, 152-3, 232-3, and 253-4.
- (2) At least three of the courses listed in the following groups
 - (a) MATH 141-2, 142-2, 161-3, 180-3, 241-2
 - (b) No more than one of MATH 194-3 or 196-3 (or 195-3).
 - (c) No more than one of CMPT 103-3 (or CMPT 102-2 or MATH 106-3).
- (3) At least 12 semester hours in Group A courses
 - English, History, Modern Languages, or Philosophy.
- (4) At least 12 semester hours in Group B courses
 - Archaeology, Economics and Commerce, Geography, Political Science, Psychology, or Sociology/Anthropology.
- (5) At least 6 semester hours in Group C courses
 - (Biological Sciences, Chemistry, or Physics), excluding Mathematics.

Students who have been, or who have intended to be, majors or honors students in Biological Sciences and who have completed MATH 141-3 or MATH 153-3 need not take MATH 151-3 or MATH 152-3, respectively. Students who have been, or who have intended to be, majors or honors students in the social sciences and who have completed MATH 150-3 with a grade of A or B need not take MATH 151-3. Students transferring from other institutions, or from faculties other than the Faculty of Arts with 30 or more credits may, upon recommendation of the Academic Advice Centre or the Mathematics Department, apply up to 6 semester hours of credit for courses in Group C, excluding Mathematics (Biological Sciences, Chemistry, or Physics) or Group D (Education) in lieu of credit for courses in Group A or Group B; this substitution will not be allowed for students with regular entry directly into the Faculty of Arts.

Department of Modern Languages

Room 8108 - Classroom Complex
291-3544

Faculty:

C. P. Bouton L. és L., D.E.S., Docteur
Professeur (French and L

L. Burdill-Hall M.A. (Camb.), Ph.D. (Lo
Professeur (Linguistics)

P. Guimard Docteur és Lettres (Paris)
Professeur (French and Li

B. E. Newton M.A. (Oxon.),
Professeur (Linguistics)

J. Foley B.A. (Nebraska), Ph.D. (C
Associate Professor (Ling

Helyn J. Harden B.A. (Mt. Holyoke), M.A.
Associate Professor (Rus

E. W. Roberts B.A. (Wales), M.A., Ph.D
Associate Professor (Ling

M. P. Viray Docteur és Lettres (Paris)
Associate Professor (Fren

J. H. Wahlgren B.A., M.A., Ph.D. (Calif.
Associate Professor (Rus

Helene Altmann B.A. (Hunter), M.A. (Col
(Georgetown),
Assistant Professor (Germ

B. E. Bartlett B.A., M.A. (Oxon.), M.A.
(Yale), Ph.D. (S. Fraser),
Assistant Professor (Fren

E. R. Colhoun B.A., Ph.D. (Corn.),
Assistant Professor (Spar

C. DeArmond B.A. (Wash.), M.A., Ph.D
Assistant Professor (Rus

J. Garcia Prof. Litt. (Perú), M.A. (C
(Madrid),
Assistant Professor (Spar

- 2 -

At least 45 credit hours must be in lower division courses. Note: Any upper division course will not count towards the upper level requirements if taken prior to admission to upper levels.

No more than 16 credit hours may be taken in any one semester without the written consent of the Dean of the Faculty of Arts.

Upper Levels (majors):

At least 60 semester hours of credit which must include

(1) At least 45 credit hours in upper division courses, of which at least 30 must be in upper division Mathematics courses. Note: PHYS 411-4 may be considered to be a Mathematics course in this case.

(2) At least 15 credit hours outside the major subject area. (This requirement is automatically fulfilled when a student completes requirements for an approved double major or major/minor program.)

(3) At least 45 credit hours taken within the Faculty of Arts (which may include courses taken in the Mathematics Department), and used for credit toward the degree. This restriction does not apply in those cases where a student is enrolled in an approved degree program involving two or more faculties such as a double major or major/minor degree program.

No more than 18 credit hours may be taken in any one semester without the written consent of the Dean of the Faculty of Arts.

All levels (majors):

At least 120 semester hours of credit of which at least 60 hours must be taken within the Faculty of Arts. (Courses taken within the Mathematics Department may count toward this requirement.)

Upper levels (honors students):

At least 72 semester hours of credit which must include

(1) At least 60 credit hours in upper division courses, of which at least 50 must be in upper division Mathematics courses. Note: PHYS 411-4 may be considered to be a mathematics course in this case.

- 3 -

- (2) MATH 310-3, 312-4, 320-3, 421-4, 422-4, and at least one of 431-4 or 432-4. These courses are counted as part of the 50 hours credit referred to above, provided they have been taken as upper levels courses. It is permissible to take any of these courses as a lower levels course, provided all prerequisites have been met, but in that case the course is not included as part of the 50 hours of upper levels upper division Mathematics course work.
- (3) At least 15 credit hours outside the major subject area. (This requirement is automatically fulfilled when a student completed requirements for an approved double major or major/minor program.)
- (4) At least 57 credit hours taken within the Faculty of Arts (which may include courses taken in the Mathematics Department), and used for credit toward the degree. This restriction does not apply in those cases where a student is enrolled in an approved degree program involving two or more faculties such as a double major or major/minor degree program.

No more than 18 credit hours may be taken in any one semester without the written consent of the Dean of the Faculty of Arts.

All levels (honors students):

At least 132 semester hours of credit of which at least 72 hours must be taken within the Faculty of Arts. (Courses taken within the Mathematics Department may count toward this requirement.)